# he Mining Immal,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1649.—Vol. XXXVII.

LONDON, SATURDAY, MARCH 30, 1867.

STAMPED ....SIXPENCE. UNSTAMPED..FIVEPENCE

#### Mining Exchange, London.

INING EXCHANGE, LONDON.—As the rules of the Mining Exchange PROHIBIT all its MEMBERS from ADVERTISING SHARES at FIXED PRICES, the Committee feel it their duty to taily that they have no means of offering redress to such of the public as may all with those advertising shares at fixed prices.

A List of the Members can be had on application to the Secretary.

MR. JAMES CROFTS, STOCK AND SHAREBROKER, No. 1, FINCH LANE, CORNHILL.

(Established 24 years.)

HOLDERS of mining shares Difficult of Sale in the Open Market may and purchasers for the same through Mr. Crofts' agency. Also parties requiring advice how to act in the Difformation of Abandonners of doubtful mining ocks may profitably avail of Mr. Crofts' long experience on the market in all asso of doubt or difficulty, legal or otherwise.

North Wheal Chityerton Silver-Lead.—Prospectuses may be had of Mr. Nofts, who will use his influence to procure to early applicants an allotment the shares. A considerable number have a laready been applied for. Shares, aly 3000.

PRINCE OF WALES.—See report: 153 tons of ore sampled to-day, and 100 tons more will be ready for sampling this day month. The mine is reported throughest as being in a most satisfactory condition, the productive points being worth 180 per fm. The price of the shares is entirely in favour of buyers.

\*\* Business in Okel Tor shares.

Bankers: National Bank of Scotland, Finch-lane.

Bankers: National Bank of Scotland, Finch-lane.

VILLIAM LANE (SUCCESSOR TO JAMES LANE),
44. THREADNEEDLE STREET, LONDON. R.C., STOCK AND
HAREDEALER (Established Thirty Years), has FOR SALE the following
HARES:

20 E. Rosewarne, 12s 6d
10 Marke Valley, 24 78 6d
50 Bottle Hill, 4s. 6d.
15 Chiverton, 27%.
16 Gt. No. Downs, 24%.
25 Caldbeck Fells, 15s.
5 Gireat Laxey, 2174.
25 Galdbeck Fells, 15s.
6 Great Laxey, 2174.
25 Galdbeck Fells, 15s.
5 Gireat Laxey, 2174.
25 Galdbeck Fells, 15s.
5 Gireat Laxey, 2174.
25 Galdbeck Fells, 15s.
5 Gireat Laxey, 2174.
25 Gast Care Brea, 224.
25 No. Treskerby, 22 6
25 South Darren, 228.
25 Rast Care Brea, 224.
25 No. Treskerby, 22 6
20 Wheal Grebor, 12s. 6d.
Clients and parties in the country wishing to dispose of shares will find this divertisement a ready means of doing so, by forwarding me a list of their holding.
Approved references given to any part of the United Kingdom.

Approved advanced on approved mining shares.

MR. LELEAN, ENGLISH AND FOREIGN STOCK AND SHAREDEALER.
11, ROYAL EXCHANGE, LONDON, E.C.
Bankers: Robarts, Lubbock, and Co., Lombard-street.

UIDE TO INVESTORS.—MR. LELEAN'S STOCK, SHARE,
AND FINANCE REGISTER for April contains the ninth of a series
f articles on the whole circle of Investments; with such information as is
cessary to guide intending investors amidst the shoals and quicksands of
he multifarious species of investments now in the market.
Published by Mr. BAKER LELEAN, at his offices, 11, Royal Exchange, London,
L.C. 6d. per copy, or 5s. annually, post free.

TOHN RISLEY, STOCK AND SHAREBROKER

(SWORN BROKER).

32. LOMBARD STREET, LONDON, E.C.
BUSINESS TRANSAUTED in EVERY DESCRIPTION of STOCKS and HARES, on commission only.
Rankers: London and Westminster, Lothbury. WA

. W I L L I A M W A STOCK AND SHAREDEALER, No. 29, THREADNEEDLE STREET, LONDON, E.C. MR. JOHN BATTERS, STOCK AND MINTY SHAREBROKER, 13, THROGMORTON STREET, LONDON, E.C.

JAMES D. GENN AND CO., STOCK AND SHAREDEALERS 3, CROWN COURT, THREADNEEDLE STREET, LONDON, E.C. MESSRS. McNEILL AND LONG, STOCK, SHARE, AND MINING DEALERS.

31, THREADNEEDLE STREET, LONDON, E.C.

M R. JOHN LITTLE, STOCK AND SHARE DEALER, 77, OLD BROAD STREET, LONDON, E.C. (late of Redruth). Immediate attention to orders by telegraph or letter. Prompt cash settlements.

MR. THOMAS THOMPSON, MINING OFFICES, 12, OLD JEWRY CHAMBERS, LONDON, E.C. Strongly recommends the immediate purchase of Westminster, Central Saaflach, and East Snacfell shares.

HARES FOR SALE, at a GREAT SACRIFICE, in a VALUABLE SLATE QUARRY in WALES. £5 shares, £3 10s. page r wanted.—"B. L." care of Messrs. Field and Tuer, 136, Minories, London

WILLIAM MICHELL has most RELIABLE INFORMATION hold on their shares for a week or two more, as the cutting into the lode cannot fairly be delayed beyond that time, when it will be proved whether the detractors of this mine and the "bears" of the shares are right or wrong. A change of local management is very desirable here, and anyone agreeing with me will oblige by sending me their proxies for the next meeting. I amquite certain a more satisfactory and better state of things would very soon be brought about.

"J. R." (Bradford).—1. There is no Official List of prices sent out from the Mining Exchange. A list is made out by a member of a firm in St. Michael's alley for the City Article, which is written by another member of that firm, therefore I will leave you to judge what bias is exercised, as quotations are often given when the shares are not dealt in, and rice versa.—2. They are facts which cannot be contradicted, or he would be too ready to avail himself of the opportunity to do so.—3. It is worse than a Chinese puzzle to him.

Money advanced on Mining Shares.

Bankers: London Joint-Stock and National Provincial of England.

March 29, 1867. Apply to William Michell, 42, Cornhill, Lendon, E.C.

MR. C. E.O.R.G.E. BUDG.E. STOCK. AND SHAREDEALER.

M. R. GEORGE BUDGE, STOCK AND SHAREDEALER, No. 4, ROYAL EXCHANGE BULLDINGS, LONDON, E.C. (Established by years), has FOR SALE at nett prices:—50 Okel Tor, £1 4s. 6d.; 100 Tolcarne, £6. 6d.; 100 Anglo-Brazillan, 11s.; 60 Old Gunnielake; 50 Dale, 2s.; 60 Redmoor, £8. 2d.; 100 West St. Ives; 60 Wost Kitty, 11s. 9d.; 20 Rose and Chiverton, £6; 90 Mincral Rights, 9s.; 25 Hollybush Coal (£3 paid), £24; 20 Gawton, £34; 100 New Treleigh, 14s. 6d.; 30 Crebor, 10s.; 70 Lady Bertha, 2s. 6d.; 80 West Drake Walls; 80 Caldbeck Fells; 100 West Prince of Wales; 70 Wheal Agar; 120 Hallenbeagle, 8s.; 25 Chiverton Moor; 50 East Rosewarne; 85 South Grenville, 7s.; 20 East Caradon; 100 Don Pedro; 30 Prince of Wales; 20 South Darren; 2 West Chiverton; 80 Great South Toigns, 14s.; 5 Tincroft; 50 Grenville; 50 Port Phillip; 50 Roaring Water; 20 Great Retalnack, £3; 10 Marke Valley, £44; 5 Great Laxey, £18; 1 Wheal Seton, £106; 30 Drake Walls, 14s.; 20 Chiverton Moor, £64.

PETER WATSON'S "WEEKLY MINING CIRCULAR AND SHARE LIST—SYNOPSIS OF CORNISH AND DEVON MINES," of yesterday (Friday), March 29, No. 417, Vol. IX., price 6d. each copy, forwarded on contains information on the following mines:

North Wheal Chiverton. West Great Work. West Chiverton. Great Wheal Vor. Morth Wheal Crofty. Trumpet Consols. Brittany Silver - Lead North Wheal Crofty. Trumpet Consols. Mining Company.

Prince of Wales. And an article on the Share Markets.

N.B.—PETER WATSON can recommend THREE DIVIDEND and THREE PROGRESSIVE mines, which he can strongly recommend for a great rise in price on the intrinsic merits of the mines alone.

PETER WATSON, Stock and Sharedealer, 79, Old Broad-street, London, E.C.

TOCK AND SHAREDEALER.—MR. PETER WATSON, ENGLISH and FOREIGN STOCK, SHARE, and MINING OFFICES, 79, OLD BROAD STREET, LONDON, E.C. Railway, Joint-Stock Bauks, Dock, Insurance, Canal, Mining, Steam-ship, &c.,

and every other description of shares bought and sold at nett prices.
TELEGRAPHIC MESSAGES to BUY or SELL Railway, Bank, Mine, and other shares and stocks, punctually attended to, at nett prices for cash, or for fortinightly settlements, with advice as to purchases or sales. Twenty-two years' experies

(Two in Cornwall and Twenty in London.) (Two in Cornwall and Twenty in London.)

Bankers: The Alliance Bank, and the Union Bank of London.

From the close proximity of his offices to the Stock Exchange, as well as the Mining Exchange, PETER WATSON is enabled to act with promptitude on all orders entrusted to him, which at all times are carried out with punctuality, and to the best advantage of his clients.

MR. EDWARD COOKE, STOCK AND SHAREDEALER, 76, OLD BROAD STREET, LONDON, E.C. Has SPECIAL BUSINESS in Chontaies, Prince of Wales, East Lovell, Frank Mills, South Darren, West Caradon, Prosper United, and North Crofty.

Stock Exchange securities dealt in at close market prices.

Satisfactory references given in any town in the United Kingdom.

MESSRS. POWELL AND MOSS, 78, OLD BROAD STREET, LONDON, E.C. (Members of the Mining Exchange), STOCK AND SHAREDEALERS, transact business in the purchase and sale of every description of marketable securities, at close nett prices, for eash or the fort-

A daily list forwarded on application. Bankers: Bank of England.

Bankers: Bank of England.

MES HUME, 74, OLD BROAD STREET,
MEMBER OF THE MINING EXCHANGE.

Transacts buying and selling orders at nott prices, equivalent to 1½ per cent.
East Russell £3 £ 3½
Crebor £3 £ 3½
Crebor £5 £ 3 £ 3½
Crebor £5 £ 3½
Crebor

M ESSRS. WILSON, WARD, AND CO., STOCK AND SHAREDEALERS, 16, UNION COURT, OLD BROAD STREET, LONDON, E.C. 12/2

BARTLETT AND CHAPMAN, STOCK AND SHAREDEALERS, 2, BUCKLERSBURY, LONDON, E.C.
Business transacted in every description of stocks and shares at lowest market prices, free of commission.
All communications will receive immediate attention, either personally or by letter.

r. B.—LOVELL CONSOLS : Intending investors should not delay purchasing a ent low prices. Bankers : London and Westminster.

GREAT SOUTH CHIVERTON MINE.—BARTLETT CHAPMAN recommend the PURCHASE of these SHARES for PERMANENT HOLDING. The mine is looking remarkably well, as will be seen by the agent's report in last week's Journal. £100 or £200 invested in this property cannot fail to prove highly remunerative.

Further particulars, with plans of the district, can be obtained on application to Barrley and Chapman, No. 2, Bucklersbury, London, E.C.

THE INVESTMENT CIRCULAR AND FINANCIAL RECORD published by BARTLETT and CHAPMAN, No. 2, BUCKLERSBURY, LONDON, E.C., should be consulted by all intending Purchasers of Mining for other Stock. Forwarded gratis and post free, on application.

MR. T. ROSEWARNE, 81, OLD BROAD STREET,
has BUSINESS, at close market prices, as BUYER or SELLER, in
Bedford United.

\*East Gunnislake. BROAD STREIUYER, 1
\*East Gunnislake.
West Basset.
North Retailack.
Devon Consols.
Buller.
Lady Bertha.
East Basset.
Great Vor.
South Condurrow.
Providence. close market prices, a Dale. "West Caradon. "Great Retallack. Great North Downs. "Drake Walls. Great North Laxey. Crebor. Caldbeck Fells. \*Bedford United. North Crotey. \*East Russell. \*Wheal Seton. \*South Grenville. Prosper United, Bryn Gwlog. East Grenville. North Treskerby. West Chiverton. Ding Dong. sewall Hill.

Ding Dong.

Rosewall Hill.

T. Rosewarne is a BUYER of any part of 2000 Okel Tor, at market prices. Special information given on this mine, also on shares marked thus \*.

PRINCE OF WALES.—The reports this week are most satisfactory. The mine rever looked better than at the present, which will be shown by the dividends which will be paid. I say again to all my friends increase your interest, and bear in mind that the north lode is yet to be cut, and when it is it is likely to prove as valuable as the one now working upon.

Money advanced on mining shares.

Bankers: Bank of England and Consolidated.

MESSRS. J. TAYLOR AND CO., MINING AGENTS AND SALE:—
SALE:—
50 Fonhale and Lomax.
100 Great East Lovell.
100 N. Birch Tork Vitifer 50 Great Man. 100 Great Co. strongly recommend the immediate purchase of Great

M ESSRS. LANE AND GIBBS, 2, ROYAL EXCHANGE,
LONDON, E.C. (Members of the Mining Exchange), STOCK ANISHAREDEALERS, AND FINANCIAL AGENTS, transact business in all kinds
of securities at closest nett prices for cash or account.

Parties of respectability can have transfers registered in their names prayions
to payment.

Daily price list on application.

Bankers: London and County Bank.

M ESSRS. FREDERIC GILL AND CO., STOCK AND SHAREDEALERS, ST. CLEMENT'S HOUSE, CLEMENT'S LANE LONDON, E.C., TRANSACT'S BUSINESS in all MINING STOCKS and SHARES at closest market nett prices, either for eash or account.

Bankers: City Bank.

INVESTMENT, LOAN, AND BANK AGENCY.

Established 1839.

BANKERS-London and County Bank.

Purchases and Sales of British and Foreign Stocks and Shares negotiated upon

M R. C H A R L E S T H O M A S, 3 MINING AGENT, GENERAL SHAREDEALER, AND AUCTIONEER, 3, GREAT ST. HELEN'S, LONDON, E.C.

3, GREAT ST. HELEN'S, LONDON, E.C.

MR. T. E. W. THOMAS, MINING AGENT AND GENERAL MINING SHAREDEALER, UNION CHAMBERS, UNION COURT, OLD BROAD STREET, LONDON, E.C.
Mr. THOMAS can now recommend two mines, the market prices of which are below 21 respectively, especially for an early and great advance; names and full particulars he will forward upon application, accompanied by 10s. stamps.

SAFE INVESTMENTS FOR CAPITAL, Paying 5 to 20 per cent. per annum upon the outlay.

SHAREHOLDERS, CAPITALISTS, TRUSTEES, and INVESTORS seeking valuable and reliable information, and requiring safe, sound, and profitable investments, should at all times consult

SHARP'S GENERAL INVESTMENT CIRCULAR (Post free).

(Post free).

It is a safe guide, giving every information to shareholders and capitalists.

GRANVILLE SHARP, STOCK & SHAREDEALER, 32, POULTRY, LONDON.

R. JOHN B. REYNOLD S OFFICES, 70 and 71, BISHOPSGATE STREET WITHIN,

OFFICES, 70 and 71, BISHOPSGATE STREET WITHIN,

LONDON, E.C.
Business transacted in British and Foreign Stocks, Railway, Bank, Insurance,
Financial, or Mining Companies Shares, and all Miscellaneous Securities, at the
lowest market quotations.
Exchanges effected and purchasers found for shares not generally marketable
Mr. REYNOLDS is a BUYER or SELLER of Great Retailack, Great Laxey
Rose and Chiverton, Great Wheal Vor, West St. Ives, West Kitty, North Dolcoath, West Great Work, North Crofty, and all market mines.

All communications from clients are treated as strictly in confidence.

Telegrams promptly attended to. Established Ten Years.

Bankers: City Bank.

WEST ST. IVES.—The attention of Capitalists is particularly directed to the merits of this property. I have SPECIAL BUSINESS in these shares, both as BUYER and SELLER, and am prepared to furnish a copy of Capt. Pope's report to any applicant, together with copies of subsequent report, on receipt of stamps, 2s. 6d.
J. B. Brynolds, 70 and 71, Bishopsgate-street, London, E.C.

R OSE AND CHIVERTON UNITED.—A ground plan and section are now on view at the offices of the company, as well as a special report of Capt. Hancock, of Polberro. Both of these can be inspected on application, and copies of his report, and another special report, be forwarded on receipt of stamps value 2s. 6d.

70 and 71, Bishopsgate-street Within, London.

WANTED: -50 WHEAL KITTY (Lelant), and any part of 250 WHEAL AGAR. State lowest price, cash or account.
H. B. RYE. 77, OLD BROAD STREET, and MINING EXCHANGE.
Established in Cornwall and London 25 years.
March 29, 1867.

MR. EDWARD BREWIS TRANSACTS BUSINESS in all MINE STOCKS and SHARES, at nett prices, for cash or account. Clients' business telegrams promptly attended to. 8, Warnford-court, Bank, E.C., London.

MR. WILLIAM SEWARD, STOCK AND SHAREDEALER' 3 9

EORGE RICE, STOCK AND SHAREDEALER, 78, OLD BROAD STREET, LONDON, E.C. (Member of the Mining Exchange), 25 years' experience), TRANSACTS BUSINESS in MINING SHARES, at loss prices.

Close prices.

SPECIAL BUSINESS in Chiverton Moor, East Lovell, Great Vor, North Crofty,
West Chiverton, and Prince of Wales.

Money advanced on mining shares.

March 29, 1867.

Bankers: Bank of England.

MATTHEW GREENE, STOCK AND SHAREDEALER,
ST. MICHAEL'S HOUSE, CORNHILL, LONDON, E.C.
MATTHEW GREENE is always prepared to deal at close prices in Stock Exchange securities and mining shares, and has FOR SALE the FOLLOWING
SHARES, nett and free of commission:—
10 Great Laxey, £17½. 10 Clifford, £6¾. 100 Bottle Hill, 5s. 100 Chontales, £2½. 15 East Caradon, £5½. 65 Penhale& Lomax, 3s 6
50 Pri. of Wales, 55s. 6d. 10 Westminster, £5, 20 East Bottle Hill, 5s. 20 Chiverton Moor, £6. 20 New Clifford, £2½. 10 East Basset, £20½. OFFER WANTED for £160 Stock Millwail Freehold Land and Dock; 5 (£25 Lypaid) London and Glasgow Engineering and Iron Ship Company,
Bankers: Messrs, Ransomes, Bouverie, Pall Mall, and Imperial Bank, City.

MR. G. D. SANDY, STOCK AND SHAREDEALER,
No. 48, THREADNZEDLE STREET, LONDON, E.C., TRANSACTS
BUSINESS IN EVERY DESCRIPTION OF STOCK EXCHANGE SECURITIES,
MINING and FINANCIAL ENTERPRISES, at close market prices.
Mr. G. D. SANDY'S Circular for the present month, is now ready, and should
be perused by all interested in mining enterprise. Gratis, post free.

Correct Daily Price List may be had on application.

Money advanced to any amount on legitimate stocks and shares.

References exchanged.

M ESSRS. DEBENHAM AND CO.,
STOCK AND SHARE BROKERS,
No. 37. MOORGATE STREET, LONDON, E.C.
(and at ST. ALBANS),
WANTED TO PURCHASE—New Quebrada and Frontino and Bolivia shares.
Sellers to state number and lowest price. MESSRS.

M. R. JOHN HOSKING, MINING ENGINEER,
(Late of Ashburton, Devon).

Mr. HOSKING, having had 20 years' practical experience, OFFERS HIS SERVICES as MINE SURVEYOR, VALUER of MINING MACHINERY, or to INSPECT any MINING PROPERTY, either at home or abroad. Terms on application.—14, Liverpool-street, London, E.C.

Pilcation.—14, Liverpool-street, London, E.C.

MR. R. EMERSON, 28, GREAT WINCHESTER STREET, London, E.C., has the Following SHARES FOR SALE:—60 Oke-hampton Mining Company, 10s.; 50 Snacfell, 20s.; 50 East Bottle Hill, 4s. 6d.; 6 Hematite Iron Ore Company, £3 (fully paid); 5 Wheal Jane, £7; 5 Leeds and St. Anbyn, £5; 20 Cardigan Consols, 35s.; and is a BUYER or SELLER of Wh. Alice Aifred, West St. Ives, Budnick Consols, and Rose and Chiverton.

I believe there never was a time in the history of mining requiring more caution, sound, honest, and practical experience to be brought to bear on this class of industry in defence of legitimate undertakings than the present, and from the long experience I have had, both in the mines of Cornwall, and in London, and being in daily communication with reliable practical authorities from the bost mining districts, I flatter myself in giving sound advice to my clients. As worthless projects are using abandoned, sound legitimate undertakings are sought ont. I have at all times a selected list of shares in honest, well-conducted mines, which I can recommend with confidence both for investment and speculation. I am also in a position to advise as to those of not so encouraging a character, and will, therefore, pledge myself to do the best in my power for all who may be pleased to favour me with their orders.

Eighteen years' experience in Cornwall and thirteen in London,

## Original Conrespondence.

COAL MINES INSPECTION.

NEW GENERAL RULES BY INSPECTORS, AND INCREASED SAFETY IN COAL AND IRONSTONE MINES. [Continued from last week's Journal.]

To understand this matter fairly, the causes—real, probable, and possible—of explosions requires to be clearly understood, and at the risk of stating what everybody think they know, I will endeavour to explain them. To cause those calamities, two things are indis-pensably necessary:—1. The presence of an explosive atmosphere; and 2, its coming into contact with naked flame or its equivalent.

I say an explosive atmosphere, because the fire-damp of coal mines—the byhydruret of carbon of chemists—is not of itself explosive until mixed or mechanically combined with or diffused throughout the ordinary atmosphere of the mine in definite proportions. It becomes ore or less explosive as it is mixed with the mine atmosphere : when it forms 1—31 to 1—15, or rom 3-22 to 6-6 percent, of the atmosphere; the does not explode; when 1—14 its inflammation extends throughto does not explode; when 1—14 its inflammation extends throughout the gaseous mixture without loud detonation or violent explosion.

The rapidity of inflammation increases to a certain point with the
proportion of fire-damp one-ninth or one-eighth, or 11 to 12 per cent.,
forming the most highly explosive mixture. With a further increase
of fire-damp the mixture becomes less and less explosive, until it is 14.3 per cent., when it ceases to be so; when the mixture contains more than 1—5, or 20 per cent. of fire-damp, it ceases to be inflammable. This accounts for the difference in violence of explosions. The more nns accounts for the difference in violence of explosions. The more nearly, up to a certain point, the quantity of air approximates to safety—but is still deficient—by rendering harmless the noxions gas, the more general, extensive, and destructive is any explosion of such mixture. From 7 to 11 or 12 per cent, the violence of explosion inmeasure. From 1 to 11 or 12 per cent, the violence of explosion in-oreases; from 11 or 12, or 20 per cent, of fire-damp, it decreases, and beyond 20 to 33 per cent, it ceases to be explosive for want of atmo-spheric air, or, more correctly, oxygen. It also gives us a measure of the quantity of air required for the safe ventilation of a mine. I believe at the Oaks Colliery, since the shafts were sealed, the dis-charge of fire-damp through a pipe inserted for the purpose in the scaf-fold has not averaged more than 500 cubic feet per minute; but sunfold has not averaged more tl.an 500 cubic feet per minute; but suppose it to have reached twice this, or 1000 cubic feet per minute, it would have rendered a current of only 10,000 cubic feet per minute highly explosive, but would have been invisible on account of 30,000 highly explosive, but would have been invisible on account of 30,000 cubic feet per minute, whilst the quantity of air in circulation in that unfortunate mine was proved at the inquest, by records kept up to within a few days of the explosion, to have been more than five times this quantity. This simply proves what is well known, that the rentilating currents of a moderately well-aired mine never reach anything like an explosive condition. It is not so much increase of quantity of air that is required at the present day, but a more perfect and permanent application and distribution. There can be no question that the ordinary discharge of fire-damp in our worst mines is not at all an unmanageable quantity if ventilation can be applied at the proper place. There is one point worthy of special notice—the effect of a mixture

unmanageable quantity it ventilation can be applied at the proper place. There is one point worthy of special notice—the effect of a mixture of carbonic acid with an explosive atmosphere. On mixing one part of carbonic acid with seven parts (or \( \frac{1}{6}\) or 12.5 per cent.) of an explosive mixture of fire-damp, its power of exploding is destroyed. It would be an immense boon to the mining interest if a reliable fire-damp and carbonic acid indicator could be invented. It appears great disappointment has resulted from Ansell's not being so. We want not however, given up the hore that something of the kind will must not, however, give up the hope that something of the kind will

yet be discovered.

An explosive atmosphere may be formed in a mine yielding fire-damp through deficient or defective ventilation, or from a sudden issue

of a considerable quantity of air.

Where the part of the mine is accessible deficient ventilation should not exist, because it is clearly unnecessary when only the common or usual mode of discharge of fire-damp exists. But the difficulty is or usual mode of discharge of fire-damp exists. But the dimentity is where the gas is generated in parts absolutely inaccessible, in the goaves or parts where the coal is entirely extracted. These parts always have been, and will be, the sources of greatest difficulty and danger. There is the greatest possible difficulty in preserving air-passages around thin edges, and to do so across them, except where of very limited extent, is an impossibility.

Deranged ventilation arises from the air not being maintained in the area direction on in artificient quantity through obstructions in

the proper direction, or in sufficient quantity through obstructions in the air-passages, arising from the falling roof. In passages through the coal they can be avoided or remedied, but where they pass along the margin of goaves it often becomes an impossibility, and where such air-passage is the only one, as is generally the case in long wall working, the current of air is unavoidably restricted. This is a very working, the current of air is unavoidably restricted. This is a very great objection to long wall working in fiery mines. It is also often found difficult or impossible by this mode of working to avoid doing so along the higher levels of such goaves, and in doing so, where there is a considerable inclination of the bed, accompanied by a considerable discharge of gas, it is almost an impossibility to keep the working face, or close to it, free from gas. We have also another element of danger in the large masses of coal generally taken down at one operation, considerably restricting the air-nassage along the element of danger in the large masses of coal generally taken down at one operation, considerably restricting the air-passage along the benk faces. With a serious inclination, and the large yield of firedamp, long wall working on the rise edges of the goaves is, without doubt, the most difficult of any other to perform with safety. A great defect, but not unavoidable, exists in not having air-passages between the edges of such goaves and the intake air-currents, where naked lights are used, as is very generally the case in this mode of working. It is a very important consideration, and I believe it is a working. It is a very important consideration, and I believe it is a fact, that sudden issues of gas in connection with goaves is more frequent in long wall than any other mode of working. If this be so, the conclusion can scarcely be avoided, that it arises more from the and conclusion can scarcely be avoided, that it arises more from the mode of working than from any special condition of the fire-damp in the strata. If this be so, it points clearly to the remedy—surround such goaves by return air-courses, and work in the lower instead of the upper edges of such goaves; this will prevent large accumulations of fire-damp within the goaves, and if by the sudden settling of the roof, or even a reduced atmospheric pressure coincident with a fall of the barometer, an unusual quantity of fire-damp be given off, it will be discharged into the return air-course; intend of the vorking it will be a superior of the rooking in the the return air-course; intend of the vorking it will be a superior of the rooking in the superior of the rooking i it will be discharged into the return air-courses instead of the working faces. The great point to aim at is to drain off the gases from the higher edges of such goaves as it becomes disengaged from the strata, so as to prevent its accumulation to the utmost possible extent, and to remove the ordinary working operations to the furthest possible distance from this, its natural place of discharge. With goaves so arranged and ventilated the unavoidable danger connected with them is reduced to a minimum, and, further, what is very desirable is the almost certain result that in a few years, probably within five, such goaves will be gradually and thoroughly drained and exhausted of hat it will be followed v the discharge of carbo acid gas, which, as has already been shown, when mixed with the most explosive atmosphere to the extent of 12½ per cent, renders such which, as has already been shown, when mixed with the completely inexplosive.

This is not science or theory alone, although it is that most cor-This is not science or theory alone, although it is that most correctly, but it is also the result of practical experience. I have seen goaves which for two or three years after their first formation yielded fire-damp most abundantly gradually cease to do so, and ultimately it became succeeded by a discharge of carbonic acid gas, so pure that it would extinguish fame as suddenly and completely as if it had been plunged in the sea. If this state of things can be produced, or if it is a natural result, and can be aided or accelerated, it will have a most important influence in determining the extent to which coal can be worked, and the areas fairly available by a pair of shafts.

The principle of working collieries in isolated districts is a very old idea. It was practiced unwarded of 40 very age, by Mr. Buddle and

idea. It was practised upwards of 40 years ago by Mr. Buddle, and is in some cases practised to this time. It was, however, generally abandoned, more from a defect in arrangement than of principle No doubt, if properly arranged, it would tend to restrict the area and extent of explosions, but if arranged on the plan adopted by its inventor it would increase the danger and effects of explosions. Any mode of isolating the workings of any given colliery must be under one certain condition. The workings and roadways must diverge from one common inlet, and converge to one common outlet; this is unavoidable. It is proposed by Mr. Wynne, in his special report, "that in all cases where new mines age driven into every 100 acres

should be worked in separate pannels or sections, with not more than two roads through the separating 'rib,' which rib shall not be less than 20 yards (thick) between the sections." Does Mr. Wynne propose to have these ribs permanently? If not, it would be only a temporary separation; besides, I think his 20 yards ribs would be inadequate to maintain isolation between districts gobbed on both sides of such rib. I am confident that not less than 2-chains ribs would stand the pressure of such deep mines—say as the Oaks, which is 300 yards deep. This would involve leaving a serious quantity of the mine ungot. With a 2-chains rib 100 acres of workable area would reungot. With a 2-chains rib 100 acres of workable area would require the sacrifice of 30 per cent. of the entire bed of coal, but reckoning only half of it due to each isolated pannel, which is too little, it would cause a loss of 15 per cent. of the bed of coal. This is a fact worthy the consideration of the coal question commissioners. But supposing one of these 100-acre isolated pannels, or a series of them, entirely worked out, and consequently of necessity and unavoidably charged with fire-damp—what Buddle called "capacious gasometers," "constantly charged with gas"—what state, condition, and prospects would such a "separate pannel" then present? If one of such, with the coal exhausted and charged with fire-damp, became ignited it would be like firing an enormous mortar fearfully charged, with two very short and comparatively small barrels, into the main with two very short and comparatively small barrels, into the main highways of the colliery. We talk of the danger and risk of firing a large charge of powder in a hole in stone 4 or 5 ft. long at the Oaks' Colliery, of Whitworth and Armstrong guns, but here is a "Wynne" Colliery, of Whitworth and Armstrong guns, but here is a "Wynne" 100-acre gun, with two 20-yard barrels, such as never before was dreamt of in this world. Could we get the Austrians into position before this gun, we should soon let them see what a contemptible enemy they had in the Prussian needle-gun. Mr. Brough recommends "something," it is not very clear what. "There must be some limitation to area," "persons employed," "few pairs or more pits," "something must be done." "All collieries should be pannelled, or arranged in such a manner that men in all the districts shall not be killed outsight (heat that ever occurred) when every legion haven to convert such a manner that men in all the districts shall not be killed outright (has that ever occurred) when explosions happen to occur in any one particular compartment." This sounds all very well as a generality, or something to be wished for, but unfortunately "the pannels" have to be arranged "as may be found consistent with a free transport of the products to their corresponding and proper winding pits." Why, that is just the difficulty, increased by the fact that it is almost impossible to know sufficient of the circumstances. that it is almost impossible to know sufficient of the circumstance of any bed of coal to enable such a plan to be arranged before the coal is cut up, or won out, to a considerable extent. If it could, the gun difficulty remains. I am sure it would be a benefit to the country if either of these gentlemen would form a definite plan, showing the arrangements in different stages, some of the districts ready charged awaiting the match, so that we could form an idea what this "somereally meant, The fact is, that the isolated pannel system is like many very head. The fact is, that the isolated painer system is like many very had plans of working pits; it is first-rate for a time, up to a certain point, and then it entirely breaks down, completely fails, becomes a disaster. No pannel, whether 10, 50, or 100 acres, could fail when entirely worked out to become what it is most desirable to avoid above all things in a coal pit—a highly-charged enormous gasometer, ebbing and flowing with every variation of atmospheric pressure, and liable at any moment to become the cause of a fearful catastrophe, beyond any hitherto known, induced to a great extent by its supposed security.

Restricting the area to be worked to a given number of shafts is

Restricting the area to be worked to a given number of shafts is also recommended. One Inspector says 200 acres to a pair, and one extra to every hundred additional. This is searcely practicable with isolation. Is the 200 acres to be in one bed, 200 in half-a-score, or 20 in each, in such a case? Why not at once fix the number of persons to be employed in any one coal mine? Are all collieries to be made to conform to this, whether they yield fire-damp or not? Where is the line to be drawn? By whom? Seriously, if this were decided, what further need is there to expend the public funds on the labours of the Royal Commission? Would it not at once put the extinguisher on all future deep coal mining? This idea might be possible in the mining of 100 years ago, when half-a-dozen pits were sunk in every field, the depth at the time being measured in inches, where it is now mining of 100 years ago, when half-a-dozen pits were sunk in every field, the depth at the time being measured in inches, where it is now feet or yards. In this age of development is coal mining to advance backwards? You talk of some persons being octogenarians, they must be patriarchs, and cling to the ideas of their youth, or, having succumbed to second childhood, revived the impressions of their infancy, doting on the happy days long, long ago. Increase inspection, lay down fixed general principles of safety, and let all coal mines conform to them, large or small, and let the best managed extend as far as they can, and let those improperly managed fail, as they ought, and close them. I may almost say, with truth, all the shallow coal of the country is won—there only remains deep coal to be had. There and close them. I may almost say, with truth, all the shallow coal of the country is won—there only remains deep coal to be had. There is very little unwon coal in the country under 300 yards deep. The Royal Commission are already trying to solve the question of possible depths of working. If the workings of a pair of shafts have to be

depths of working. If the workings of a pair of shafts have to be restricted to 200 acres—or, perhaps, to 2000—they need enquire no further, for in such an event the question is solved—there will never be another sunk to the depth of that of the deepest already working. But why all this outery about restrictions in the number of workmen to be employed, the isolation of pannels, the area of coal to be worked to a given number of shafts, except as to the number of persons who actually suffered, is there any other reason for it whatever? of course all this arises out of the two serious disasters of December last. As to that at Talke-o'-th'-Hill Colliery, we have it on the authority of the Inspector of the district, Mr. Wynne himself, that "it took place, not from any material defect of the provisions of the Act, but because of the first general, and several of the special, rules, already provided, having been neglected, the discipline of the mine having been most lax." As to the Oaks, we have it on the authority of Mr. Dickiesen, "that no coint has yet transpired at the inquest." of Mr. Dickinson, "that no point has yet transpired at the inques to which the present requirements of the law, including the specia rules, which were in force at the colliery, did not reach, unless it be rules, which were in force at the colliery, did not reach, unless it be as to the system of working which has been practised in the principal collieries in that particular seam in the neighbourhood of Barnsley." And the Inspectors add that if the "system of working involves unnecessary danger," they have the power to arbitrate. They, however, very properly decline to give the opinion that the system of working did involve unnecessary danger, but if it did, why, then, let the system be altered. Carrying a system of working well adapted to shallow workings foul from fire-damp, into deeper workings yielding it freely, has produced bad effects before now. If there is any one thing clear, as arising out of these accidents, and the joint and separate reports of the Inspectors, it is this—THAT TO PREVENT THE RECURENCE OF SIMILAR CALAMITIES, more extended inspection is required, because SIMILAR CALAMITIES, more extended inspection is required, because it is "not from any material defect of the provisions of the Act," or anything which "the present requirements of the law" does "not reach,' but because the law was simply not enforced, from a deficiency of the

Seeing that some mines do suddenly yield large quantities of fire damp, and that there is silvays a danger of the cheering among a the ruins of the higher parts of the goaves, it is found a further means of safety to restrict the use of naked lights in coal mines. Where gas is met with it may be ignited in several ways:—

1.-At naked lights.

At the furn By blasting the coal or stone.

4.—By a damaged lamp.

5.—By igniting matches, smoking tobacco, or tampering with the

6.—By the gas containing, what is unusual in this country, oleiant
gas, which explodes readily at red-hot iron.

7.—By spontaneous combustion of mineral.

The last having been considered impossible in the case of the Oaks by a most competent witness, and the sixth never having been discovered in the fire-damp of English coal mines, although it is said

covered in the are-damp of English cost mines, although it is said to prevail on the Continent, we will not further consider them.

As the Inspector states the rules were glaringly broken at Talke, we will not further refer to it, but will confine our observations to the Oaks, where naked lights or blasting were not permitted in the workings beyond the main intakes of the colliery, and where the return air did not go over the furnace. There is no proof that the explosion occurred from causes 4 or 5, and there was strong evidence that It did not go set the furnace. There was syidence to prove that blastic property of the property of the colliery of the property of the colliery o did not do so at the furnace There was evidence to prove that blastand not go so at the furnace. There was evidence to prove that blast-ing was practised within 100 yards of the downcast pit bottom, in driving a stone drift, but the persons who examined the mine soon after the explosion unanimously stated their decided opinion that it did not originate at that point, nor at the naked lights on the main horse-roads. The general impression being that, as the colliery had met on former occasions with sudden outbursts of gas, such had been

met on former occasions with sudden outbursts of gas, such had been the ease on this occasion, and that it had come into contact with a lamp accidentally damaged.

I will not pursue this further than to say that if it did not originate primarily from a large and sudden issue, it must have arisen from conditions which could not have habitually existed under a more rigorous inspection. It is well known that these sudden issues are special phenomena in coal mines, not at all the rule, but decidedly the exception, not one colliery viewer in the country out of a hundred having practically experienced any such thing. I certainly do not doubt that they do occasionally occur, and in collieries liable to them the most stringent precaution should be exercised, in excluding every class of naked light, including blasting the coal. But is there any reason to apply the same principles to collieries where for years the least symptom of such issues has not been met with? east symptom of such issues has not been met with?

The Inspectors recommend the following rule, No. 16, in their joint sport:—"In all workings in coal where safety-lamps are used as the seans of lighting, no blasting powder shall be used in such mine."

means of lighting, no blasting powder snail be used in such mine."

This is not very clear. Does it mean where safety-lamps are used in some parts of a mine that no blasting powder shall be used in working coal in such parts of such a mine, leaving it to be used where naked lights are used, or for blasting stone? I see in this rule a premium held out for the use of naked lights. Some people, for further security, will use lamps where others—say most others—would use candles. If by adopting this extreme precaution they are also bound to adopt a precaution involving a lesser amount of risk then the over dles. It by adopting this extreme precaution they are also bound to adopt a precaution involving a lesser amount of risk, then the probabilities are that they or their employers may insist on the use of naked lights to secure the use of powder, wherever such lights can be used without evident risk. And a person having some doubt as to the propriety of using naked lights may be tempted to their continuance to prevent his having to forego the use of powder; for it may be relied on that the compulsory abandonment of the use of powder will lead to unreasonable compensation being demanded by the workmen in consequence, not only where powder is required, but even where they at present never use it. It has not yet been proved that the use of powder under proper restrictions has caused any serious loss of life; it certainly seems to have had no part in the recent calamities. I must confess that, without some compulsory power as to the use of lamps, I think this rule will tend more to injury than benefit. More fatal explosions have arisen from the use of naked lights and safety-lamps in the same mine than from any other cause; and I fear this rule will perpetuate and extend this mode of lighting mines. Had it been proved that large explosions generally occurred in the most extensive mines it would have been a strong argument in favour

most extensive mines it would have been a strong argument in Iavour of restricting their area, but such is not the fact. Neither as to quantity of coal raised per day, or extent of workings, could either the Talke or Oaks Collieries be considered very extensive, not even to be compared with the many collieries in the North of England. The Oaks Colliery at the time of this explosion, in 1847, was a very small colliery. The same is true of Darley Main, Edmund's Main, Warren Vale, and Lund Hill; indeed, it is a proved fact that new collieries are generally the most dangerous. are generally the most dangerous.

I wish to remark that I do not in any way refer to the Inspectors as being either neglectful or deficient; on the contrary, from a more or less personal knowledge of the most of them, my opinion is the reverse. Nor do I advocate an increase in their number from any prospect of personal advantage, as I never have been an applicant for the position, and, probably, never will.

As to whether the increase of inspections should be by Inspectors or

As to whether the increase of inspections should be by inspectors or sub-Inspectors, I strongly lean to the opinion I have already given above, because I believe actual inspection would be more effective by chief and sub-Inspectors than by Inspectors alone, as at present, I am, however, free to confess that I have some little doubt of the influence of sub-Inspectors, without they were carefully selected from the best class of persons I have referred to, and, therefore, I have suggested the remuneration stated above so as to realize the part of the conference of the propulation of the conference of t have suggested the remuneration stated above, so as to make it a desirable position for the persons required to desire to obtain

[To be concluded in next week's Mining Journal.]

#### ALGERIA-No. IX.

SIR,-Having given in former papers some account of the physical geography and geology of Algeria, it may not be uninteresting to say something of the inhabitants and their manners and customs, also to give some statistics of the cork forests, that from their pecu-liarities have long engaged attention. From having to enquire into the nature and value of different properties, we were brought into intercourse both with the native and settler elements of the community—for example, we visited the estate of Mr. Barnoud, on a concession called Barnoud, some three miles to the north of Elarouch. a village, or small town, on the road from the coast to the capital of Constantine, and 24 miles distant from the seaport of Phillipville. We were received by Mr. and Mrs. Barnoud with great hospitality. We were received by Mr. and Mrs. Barnoud with great hospitality. Mr. Barnoud was a fine, well-grown man, that brought to mind the old English gentleman, and from his genial greeting and frank nature we found ourselves at home at the first moment. Mrs. Barnoud was a stout, motherly, lady-like woman, and did all she could to make us comfortable. We dined at 7 o'clock, having, amongst a multiplicity of dishes, according to the French style, wild boar; this dish was roast, and we found it exceedingly good. We had various sorts of wine, and with others some very choice, the produce of the vine-yards on the property, which as in duty bound we praised very much, and so far as I was concerned the meed of praise was conscientiously bestowed. After liquers, coffee, and a long chat we went to bed, beds being found for all of us, and we were a party of six, besides the driver, in the house. At 6 o'clock in the morning we were up, and coffee was served in a bower formed of creeping flowers or shrubson the terrace before the front door. This was at the end of May last, coffee was served in a bower formed of creeping flowers or shrubs on the terrace before the front door. This was at the end of May last, and the shade in the somewhat warm atmosphere was very grateful. After partaking of coffee we took a long walk up the valley by the side of the River Safsaf. We first had to descend from the house by means of easy flights of steps from a perpendicular height of 180 ft., but formed artificially into an easy slope, through terraces of neatly-kept vines. At the bottom of the steps we turned to the eastward in the valley, amid olives and a variety of other beautiful shrubs and trees; through the branches and leaves of which the soft sun-light of the morning poured deliciously. At the end of our walk, which we continued in the same direction for about a mile by the side of the stream, the water being penned up occasionally by dams which we continued in the same direction for about a mile by the side of the stream, the water being penned up occasionally by dams for driving the mills below, we came upon the track of the sanglier, or wild boar; the turf was freshly turned up for a great distance, showing that it was done but a short time previously, and, probably, the herd might have been disturbed by our approach.

All around us were grand fantastic hills of limestone, and the effect of the landscape was exceedingly picturesque. On returning to break-

fast we examined the mills, driven by the power of the river, for grinding corn and pressing the olives. The corn mill was driven by means of a large water-wheel, 35 ft. in diameter; and the olive mill consisting of cones of stone some 20 in, diameter at the large end, coming to a point at the smaller end, rolled over a concentric cir-cular incline, rising like a round buddle to the centre, crushing the olives in their progress; these rollers were driven by means of a turbine, which performed its work exceedingly well, and it was said that it was an invention that either was or had to be patented. The pools formed by the river on escaping from the machinery contained a large quantity of fish, of from 2 to 4 or 5 lbs. weight, but we understood that these were not very good eating. We then went through a beautiful garden, just below the mills, and in the valley in front of the house; in it we found large orange and lemon trees, full of lusious fruit, a very pretty pagoda-like little house, with a fountain, and where the water issued there was a marble slab, with Mrs. Barnoud's name engraved on it, and a short sentence, intimating that the garden belonged to our amiable hostess. We then ascended the steps to break-fast—and such a breakfast, consisting of, I should say, 20 removes of dishes of the most delicious viands and cookery that it was ever my good fortune to partake of. It is difficult to imagine how an Euglishman, used to his ham, chop, or steak, could by any possibility ever get through the numerous dishes of such a breakfast as this, but with the jokes of Mr. Barnoud, and the smiles of his good lady, we

certainly did contrive to pass this ordeal without any alarming consequences. A short time (say half an hour) after breakfast, allowing a little time for the eafe noir to digest, we were on horseback, and rode for many hours over and around the grounds. There were abundance of sheep, with Arab shepherds, and herds of cattle, but the most valuable and predominating feature of the estate was the beautiful clive trees, which grew everywhere in abundance; in fact, the whole surface of the land, at moderate distance with regard to order, I should think not planted, but growing naturally, was filled with them. These consisted of the bearing olive grafted on the wild and, I believe, other stock, full of fruit, and evidently very lucrative to cultivate. We found that the produce of the grape in this beautiful estate, which in its configuration is not at all unlike Hafod, in South Wales, is worth 1400l. a year. We found that the engineers were levelling a line just behind the house, for diverting the River Safsaf for supplying Philipville with water; this watercourse will be of great utility in irrigating, not only this, but all the various estates and farms along its line. We found the principal part of the estate rested upon a blue schist, traversed by quartzose lodes; we examined them, but found no traces of any valuable metal in them, although they contained a great deal of pyrites. Nothing could be more courteous than the hospitality shown to us, and it is a fair specimen of the kindness and politeness of the French in Algeria. the kindness and politeness of the French in Algeria.

COPPER MINER

#### FOOT-BRIDGES OVER STREETS

FOOT-BRIDGES OVER STREETS.

SIR,—Having seen, in the Journal of March 9, the notice respecting Foot-bridges over Crowded Thoroughfares, I beg to call your attention to a model which I had made some time ago, and presented to the Corporation of London, but finding they did not care to go into the matter, I had it sent to the Polytechnic Institution, where it now is, and where it will remain for the inspection of those who may be interested in the safety of foot-passengers. I may state that the principle of my proposal is to have bridges of light iron, crossing and spanning the crossings at the principal thoroughfares, where here is so much difficulty at present at different hours of the day in etting across, these bridges to be reached by circular stairs, placed at the corner of the streets, each tower to have two stairs, and each bridge divided, so that there would be one way of ascent and another of descent, to prevent interruption. An octagon tower in the centre of the bridges to be the point of divergence to the other sides or corners of the streets. The height of this tower would be about 24 feet from the ground, and the circular stair-towers from 12 to 18 feet, secording to circumstances; cheek-bars would be placed at the dending stairs, and at the ascending entrance at the tower, so as to revent access to these, and allow passengers to go only by the right-and passages and stairs. I should feel obliged if any of your readers ill kindly examine the model, and if pleased with it, notice it, and te necessity for something being done for saving the lives of many of those who have daily to run the gauntlet of cabs and omnibuses. Sudbury, Derby. Sudbury, Derby.

#### THE HISTORY OF MINING, ANCIENT AND MODERN.

SIR,—A few days ago I received a letter from an eminent clergy-an, well known in the paths of literature and science. His remarks ere of such a nature as to make them suitable to send you for in-

ere of such a nature as to make them suitable to send you for in-ertion in the Journal:—
"I feel very much the want of a book on subjects connected with mining, that hould have a chapter upon such parts of the subject as the following:— The Antiquity of Mining, and its First Efforts.
Some account of the Earliest Mines, with their Names and Situations. Progress in Mining, as connected with an Advanced Knowledge of Geology. Explanation of Terms, and how to understand Mining Reports.
Some account of the Origin and Progress of the best Dividend Mines, past and

some account of the Origin and Progress of the best Divident Mines, past and resent.

The Cost-Book System, its Antiquity, its Merits and Defects, as compared with he Limited Liability System.

Mines as Investments,—Bulls and Bears.—Advice to Novices.

Your communications to the Journal, and your 'Guide,' would furnish matter a some of these subjects. The whole should be comprised in a single treatise, ad published in a small volume, which might be procured at any time. It may saily be made as interesting as it would be useful. Its scope and object should efficiently and plainly described. I have no doubt it would command a large le, and I wish you could be induced to undertake it."

le, and I wish you could be induced to undertake it."

Now, Mr. Editor, you will probably agree with the saying of the Yise Man—"Of making many books there is no end." A "large ale" is not always certain, and the publishers have a knack of their wn, in obtaining nearly all the profit. I am convinced that it would asure a wider publicity, and effect more extensive good, were these opics to be treated of in the columns of the Journal. I shall, with our permission, address to you a series of letters on the subjects aftered to by my reverend friend. I am afraid, however, that I ust not attempt an essay on "Mining Reports made Easy," either or the reverend gentleman's own edification, or of the "novices" a whose behalf he seems so interested. However, the topics he entions, and the order he puts them in, afford scope for useful rearks in the columns of the Mining Journal. Thos. Spargo.

Gresham House, London.

#### SUCCESSFUL MINING IN CORNWALL.

SUCCESSFUL MINING IN CORNWALL.

SIR,—In two of the most celebrated districts in the county of Cornwill, and adjoining each other, are two of the oldest and most famous the mines of the present day, but varying greatly as to the geological nature of the strata—the Trumpet Consols, in the parish of Wendron, are entirely in granite, while Wheal Vor, in the parish of Breage, in clay-slate (schistose rock), commonly known as killas. The ormer mine was discovered in the early part of this century by the tecaptain Thomas Teague, who realised a large fortune out of it, the then low price of tin, which enabled him to carry on, and dissever the great riches in Tresavean Mine, which yielded upwards of 0,0002. A year profit (dividends) for several years. Wheal Vor, to be west of Trumpet Consols, is situated in a valley between two ranite hills. The old mine was discovered by the late Mr. John undry about the year 1813, and wrought to the depth of 300 fms., 600 yards, below the surface. This mine returned during the first years of its working about 3,200,0002. value sterling in tin ores; the price of the price of tin averaged from 351. to 402, per ton. ness gentlemen were well known as two of the most enterprising and successful men of their day, and found employment for a mulude of labourers of every description, and, with the great houses Messrs. Williams and Co., carried on some of the most extensive alprofitable mines in Cornwall. The whole of the mines wrought them, as well as a vast number of others, were worked and conceted on what is called the Cost-book Principle.

No pursuit has been more depressed than mining during the last ree or four years, owing to the disturbed state of the commerce of a world. Copper fell from a standard of 148 to 95, and tin from 2, to 421, per ton of the ore (black tin), which caused a panic in e great bulk of all mining property, as a matter of course. Most the limited liability companies fell victims to a change of circumness, which clearly shows that the principle has not worked well,

inces, which clearly shows that the principle has not worked well, in from the fact that there are at present about 90, or nearly all, these mining companies in the Stannary Court, under the Windgup Act. No doubt but many promising mines fell victims to the ree of circumstances, and others having been suspended for a time, ay, as trade improves, be resumed and carried on again successfully, so that patience may be truly said to be amongst the virtues. In the property of the virtues of the property of the property of the property of the many persons thought at that district had no more prizes, and until the recent improvement in Prosper United Mines the same was said of the Marazion strict, and until Alfred Consols was discovered people were hard of dieving that any good could come out of the neighbourhood of strict, and until Alfred Consols was discovered people were hard of dieving that any good could come out of the neighbourhood of asyle; there may be as good fish in the sea as any hitherto found, here is a district to the east and south of Prosper United Mines conining a vast number of parallel lodes of the greatest promise, and sarly all in whole ground, with the exception of two of these pallel lodes—the Owen Vean and Wheal Jewel lodes—out of some blodes, running south of east and north of west, and several lodes an easterly direction, also commonly known as standard lodes, is of which, called King's lode, in Penberthy Crofts, intersected the dlode, and contains a course of the yellow sulphuret of copper for fms. in length, and lasted for 70 fms. in depth, which averaged bout 15 per cent. for copper, and about 3 ft. wide. Wherever this de was discovered in crossing or intersecting other lodes a large decisit of very rich yellow copper ore was invariably discovered, such a that in the Wellington part of Wheal Friendship, in St. Hilary;

the

ools

rge

the

akver

We.

A CORNISHMAN.

MINING IN 1867.

SIR,—It cannot be denied that mining, like almost all other sources of wealth in this great country, during the last year has passed through an ordeal of no ordinary kind: it is, therefore, encouraging to see it, like the phænix, emerging from the fire with new lustre on its plumes. I see from the reports of the Cornish mines that several of them are reviving, amongst others the much and deservedly famed Prince of Wales Mine, and good discoveries are noted in the older mines further westward. I have myself during the last month or two travelled through much of North and South Wales—at least, through the metal-bearing districts of this old mining country; and I noticed with pleasure that there is a considerable stir amongst the dry bones, and that honest mining is getting a push in the right direction. In the old but long-neglected county of Carmarthen I see that fresh ground is breaking on the great Nant-y-Mwyn lode, and what can be more legitimate than extending such workings as those of the Nant-y-Mwyn Mine, which have been found during past ages greatly productive for more than a mile in length? I see a company is forming, called the West Nant-y-Mwyn Extension Mining Company, a very good name, applied to a very fair mining object. There is no natural impediment to the continuance of the ore for miles further westward; the rock is the same, and the only apparent traces of division in the continuity of the ore-bearing strata are the puny fences made on the surface by man, and the efforts of man extend but a short distance below the surface in effecting geological changes.

In Flintshire I noticed the works of the Golden Grove Mine, an extension westward on the great Talargooh lode. I shall be much disappointed if these new trials do not lead to a deposit of ore that will yield a quantity of money. In Cardiganshire there have been some bickerings as to lodes, that do not affect the real merits of mining at all, and yet they are calculated to work mischief, as to investors. I reco

a quarter of a million worth of metal from above the adit. I know all the different mines in dispute, and if some have been depicted in too glowing colours, I think the mistake has been sharply enough corrected, and I believe there is real merit and tangible wealth in every mine alluded to in the untoward controversy. The history of the Cardiganshire mines for the last 30 years has been one of undeviating success, and the healthy progress of the whole has been assured. New mines are opening, with a vista of great future prosperity, as high as Plynlymon. Old mines have good discoveries, such as Darren. The only theory the public have to take care of is the management, and if they provide sufficient capital in those mountainous and picturesque districts, where it is a healthful pleasure to spend the summer months, they will not come away from them less rewarded than those London investors who have constantly trusted to the lead and silver lodes of Cardiganshire, Flintshire, and Carmarthenshire for the last quarter of a century.

ESPERANZA. marthenshire for the last quarter of a century. ESPERANZA.

#### EAST WHEAL RUSSELL.

EAST WHEAL RUSSELL.

SIR,—The letter of Mr. Tonkin, like his report, is a little too much overdone to be received by common-sense men. He certainly has given a very graphic description of his examination of the mine in the 140 fm. level; but, in his desire to represent the end extremely poor, he has made admissions the most damaging to his purpose. Every miner knows that in very soft and wet ground the effect of taking out a single breast-board would be to cause a quantity of soft muddy stuff to run down, and if not speedily stopped it may result in crushing up the timber, and losing the end altogether. If no such result should follow, the removal of this board would simply expose the width of the end for 8 or 9 in. high out of 6 ft., which is the height of the end. How, in such ground as this, Mr. Tonkin found it necessary to "dig and scrape the end and north side of the lode," or how, through so small an opening, he could possibly do so, I am at a loss to imagine. The end is driven up to the slide, and before the water was in, and the run took place, Capt. Richards tells us that he saw the lode east of the slide just in the back of the level, and valued it at 251, per fm. This is corroborated by the men who work there, who call it a good lode of rich ore; but since the run has taken place the ground is so soft about the slide that the most carefully-chosen men for this kind of work cannot drive through it. Yet Mr. Tonkin would have us believe that he has succeeded in getting 5 or 6 ft. beyond this point, and there examining the lode.

The stuff washing out from between the timber, we are told by the agent, contains prilis of copper ore, and when the ground is sufficiently drained I have no fear but that a good lode will be found. As to the north lode, if not a copper gossan, will Mr. Tonkin enlighten us as to what kind of gossan it is? One thing is certain, that rich stones of copper ore are met with in the 130, and a considerable quantity of native copper is disseminated throughout, leading many to be lieve

### [ADVERTISEMENT.]

#### GREAT LAXEY MINING CO .- AND ITS MANAGEMENT.

[ADVERTISEMENT.]

GREAT LAXEY MINING CO.—AND ITS MANAGEMENT.

SIR.—In reading the report of the meeting of the Great Laxey Mining Company, which appeared in the Journal of March 16, I could not fall to observe certain statements made by Mr. Dumbell, the Chairman, in which he has very freely used my name, evidently not with the intention or desire of doing me any good, but, on the contrary, if possible, to do me a serious amount of injury; and this would certainly be the effect produced, provided such statements could be in any way substantiated, or be permitted to pass by unnoticed. I, therefore, consider under these circumstances I am fairly entitled to a small space in your next Journal in order to correct, or rather refute, those statements to which I refer, and of which, on account of their nature and untruthfulness, have reason to complain. The first to which I will refer is in reference to the formage in the management of the mine over the public anary development, and as I have always been recognised time of the third of the control of the true of the public of the proof of

then at Trevarthen Downs Mine, then at South Prosper Mine, then at Wheal Jewell, near Marazion, all in the parish of St. Hilary; this latter mine yielded at the time it was wrought the richest yellow copper ore in the county, averaging from 15 to 20 per cent. for copper, and was wrought about 90 years ago to a shallow depth. It was here that Boulton and Watt erected their first steam-engine in Cornwall, and from this mine the same engine was taken to the Godolphin Mines, where the fortunes of many families were made, and laid the foundation of many houses and persons now possessing great wealth foundation of many houses and persons now possessing great wealth a Cornishman.

MINING IN 1867.

SIR,—It cannot be denied that mining, like almost all other sources of wealth in this great country, during the last year has passed through an ordeal of no ordinary kind: it is, therefore, encouraging to see it, like the phemix, emerging from the fire with new lustre on its plumes. I see from the reports of the Cornish mines that several of them are reviving, amongst others the much and deservedly famed Prince of Wales Mine, and good discoveries are noted in the older mines further westward. I have myself during the last month or two travelled through much of North and South Wales—at least, through the metal-basing distinction of the site of the state-ment had by Capt. Rowe attempted to conceal the denied having made such statement." My answer to this is, Mr. Bellamy did say 18, Mr. Bellamy did say 18, Mr. Bellamy did sult when charged with it by Capt. Rowe attempted to conceal the denied having made such statement." My answer to this is, Mr. Bellamy did length will the which all charly it is at the mental east at the meeting, he afterwards acknowledged, in the presence of his brocker at the meeting, he afterwards acknowledged, in the presence of his brocker and although Capt. Rowe attempted to conceal the denied having made such statement." My ansker to these things will the denied having made such statement: and although

#### THE PERRANZABULOE DISTRICT.

THE PERRANZABULOE DISTRICT.

SIR.—Some time since a letter appeared in the Journal, describing a circle, with a run of valuable and progressive mines, in this district, and naming several in the centre, commencing with Great Retailack. I have much pleasure in stating that this mine is turning out to be far better than was represented by the writer, and it must be both satisfactory and gratifying to him, as well as to the shareholders, to hear of the discovery made. I am given to understand that the set on the south boundary of the said Retailack (Wheal Thomas) is not yet working. In forming an opinion of this ground, I consider it is one of the best unworked setts in the district. The lodes are situated between two large elvan courses, and the Retailack lode crosses the first, and in a splendly alley intersects three east and west lodes in about 50 fathoms; this I consider quite sufficient to satisfy any person as to the value of this set, and I am at a loss to find it is not working, well knowing it to be a valuable piece of mining property. Still further south is Wheal Albert, which sett embraces all the Old Shepberds east and west lodes, as well as several others of great promise. In taking a geographical survey of this sett, and in all suppose the reasons are well known to the shareholders. To the western boundary of the sett is North Chiverton, the lodes from which run through the entire length of this sett, and being parallel lodes with that of West Chiverton, and situated in a splendid locality, with highly mineralised strata, and not far distant from the latter mine, I congratulate myself with the reasonableness of its becoming a valuable mining property. This mine is sworked under the able management of Captain Hancock, who, in all probability, with a small capital, will bring it into a paying state, and ultimately we shall find it in the list of dividend mines. I have muceh pleasure in saying that the great hindrance is removed; and, in addition to this, the bottom levels are opening good tribute grou

#### FRONTINO AND BOLIVIA GOLD MINING COMPANY.

FRONTINO AND BOLIVIA GOLD MINING COMPANY.

SIR,—Mr. Josiah Harris having repeatedly addressed letters to you, and to other public journalists, respecting the Frontino and Bolivia (South American) Gold Mining Company (Limited), I am desired by the directors of that company to state that it is their determination not to enter into any correspondence whatever, either directly or indirectly, with Mr. Josiah Harris, beyond saying, once for all, that most of his statements are untrue in fact, and the remainder are gross misrepresentations. Mr. Josiah Harris cannot have a legitimate object in view, because he held no interest in the company until a few weeks ago, when he laid out the large sum of five pounds in the purchase of 15 shares. His present interest in the company is confined to the said sum of 5t., an amount which would afford no inducement to a man to take much trouble, and incur considerable expense, unless he had other intentions than the protection of his own property. Knowing how easy it is, in the present state of the law, for unscrupulous people, alded by equally unscrupulous agents, to make attacks upon joint-stock companies, the directors hope that the shareholders will feel disposed to equiries should inspire any confidence on their part.

The directors hope it will not be long before they shall have an opportunity of meeting their sharcholders, to whom alone they owe, or will render, any account of their proceedings; and Mr. Harris, and those with whom he may be assured that they mean to proceed in the discharge of their duties undeterred by his attacks. They will endeavour to protect the property of the company from the injury which he would inflict upon it, and they believe they shall satisfy the shareholders that they have performed their duty.

New Broad-street, March 28. HENRY L. PHILLIPS, Managing Director.

#### MINING, METALS, AND MINERALS - PATENT MATTERS, By M. HENRY, Patent Agent and Adviser, M. Soc. Arts, Assoc. Soc. Eng.

MINING, METALS, AND MINERALS—PATENT MATTERS.

By M. Henry, Patent Agent and Advisor, M. Soc. Arts, Assoc. Soc. Eng.

The subject of Smoke Consumption, notwithstanding the numerous essays that have been directed to this desirable object, still occupies the attention of inventors, and a recent patent relating to this object has been taken by Mr. Newton, who proposes to construct an arch of brickwork, perforated with two or more holes, and to insert therein small pipes, which extend a short distance in the furnace. The outer end of these pipes he connects by means of branch pipes with an air tube, which tube is supplied with a current of air by the means of an ordinary fan. A valve is placed between the fan and the jets, for the purpose of regulating the admission of air.

The subject of Tin and Terne-Plates again appears in the list, a patent (No. 1902) having been taken by SAUNDERS and PIPER for these metallic plates. The inventors propose to proceed as follows; they take plates out of a cistern of water in which they are placed after the last "plckling," and they pass them singly through rollers covered with elastic material. The plates are nearly freed from water, and they are then placed in some greasy material or bath, which is raised to a high temperature.—Another patent has been applied for by Mr. S. C. SALISBURY relating to the metallurgical arts; it is numbered 652, and the title relates to reducing and refining ores, more particularly ores of iron, and converting iron into steel, and to apparatus for same.

M. BONNEYILLE has specified (as a communication from M. Petitplerre) an invention relating to steam-generators, consisting in an arrangement of tube in a fire-box between the generator and the cylinder, while a piston is used, by means of which a great volume of steam is obtained, and a great reduction of fuel.—Mr. Clifton, the ingenious patentee of the atmospheric churn, which attracts so much attention, has recently applied (through my agency) for two patents, one relating to refigerators, ice safe

No. 789, ALLHUSEN, LOHGON, grinding, graining, polishing stone, &c.—No. 789, ALLHUSEN, Nowcastle-on-Tyne, treating small pyrites and pyrites dust to obtain sulphur.—No. 816, BISCHOF, Bonn, coating metals.—No. 813, STEWART, Glasgow, core bars and studs, for casting iron pipes and similar articles.—No. 814, Dr. MARCHISIO, Isolating compositions for protecting metallic surfaces.

The following patents have been sealed:—Siemens, Westminster, smelting ores and furnaces.—UREN, Plymouth, dressing granite, &c.—Dodor, Manchester, Iron tools.—SAMS, Aberdeen, strengthening and tightening wire.—DIXON, York, steam-boller and furnace,—TURNER, Leeds, consuming and conomising smoke.—STEWART and CHAPMAN, Lancaster, tools for drilling, &c.—JOHNSON, Communicated from Henrietto Pelong), cutting frets in metal.—BAYLISS, Newport, Iron.—VALENTINE and BENSON, Chester, melting and casting steel.—BENSON and VALENTINE, Chester, test—BENSON and VALENTINE, Chester, malleable iron.—BESSON and VALENTINE, Chester, fron and steel.—CALVERT, Strand, Iron and steel.—VAN DERBURG, New York, artificial stone, cement, &c.

MARTIN'S PATENT ANCHOR COMPANY (Limited).—At a meeting of shareholders, it was resolved that the company should be wound-up voluntarily, and Mr. Edward Addis (Addis and Harris), Threadneedle-street, London, public accountant, was appointed the liquidator.

LONDON GENERAL OMNIBUS COMPANY.—The traffic receipts for the week ending March 24 was 92291, 11s. 6d.

the wesk ending March 24 was 92291. 11s. 6d.

HOLLOWAY'S OINTMENT AND PILLS—EFFECT OF COLDS.—Numerous and severe are the disease resulting from exposure to the temperature. Skin, nuscles, lungs, and circulation become disordered, and serious illnosess ensue, unless the derangement receives timely attention. Holloway's soothing ointment well rubbed on the affected parts is an inestimable rumedy. When the lungs or heart have an irregular action, the ointment must be well rubbed upon the chest, and assisted in its curative efforts by Holloway's pit is. These noble medicaments mutually assists each other. All disorders springing from neglected colds, chills, wet, or other atmospheric viclesitudes, are thus afely and speedily checked in their course, and freed from pain and danger by these pre-parations.

#### Meetings of Public Companies.

#### ECONOMIC LIFE ASSURANCE SOCIETY.

The annual general court was held at the offices, New Bridge street, on March 23,—Mr. HENRY BARNETT, M.P., in the chair. Mr. ALEXANDER MACDONALD (the secretary) read the notice convening the meeting. The statement of accounts for the year ending December, 1866, was as follows:—

| GENERAL ACCOUNT.                    |      |    |          |    |     |
|-------------------------------------|------|----|----------|----|-----|
| Received-Assurance premiums £214,66 | 1 15 | 0  |          |    |     |
|                                     |      |    | £207,183 | 0  | 7   |
| Interest on investments 96,23       | 0 16 | 5  |          |    |     |
| Lest income tax 1,68                | 3 4  | 7= | 94,547   | 11 | 10  |
| Total                               |      |    | £301.730 | 12 | -   |
| Paid—Assurance claims               |      |    |          |    | (   |
|                                     |      |    |          | 1  |     |
| Annuity claims                      |      |    |          |    |     |
| Policies purchased                  |      |    |          |    |     |
| Re-assurance premiums               |      |    | 324      | 16 | - 4 |
| Office expenses                     |      |    | 10.284   | 3  | 11  |
| Law charges                         |      |    | 583      |    |     |
| Medical fees                        |      |    | 279      | 6  | 0   |
| Balance carried to investments      |      |    |          |    |     |
|                                     |      |    |          |    | _   |

| Balance carried to investments             | 28,002    | 19  | 5 |
|--|-----------|-----|---|
| Total                                      | € 301,730 | 12  | 5 |
| ASSURANCE FUND.                            |           |     |   |
| DR.—Balance, Jan. 1, 1866, consisting of-  |           |     |   |
| Funded property ± 452,106 8 2              |           |     |   |
| Loans on policies 110,776 10 0             |           |     |   |
| Mortgages 1,570,087 17 1                   |           |     |   |
| Life interests 68,299 4 4                  |           |     |   |
| Reversions 117,259 14 5                    |           |     |   |
| Norwich Union Reversionary In-             |           |     |   |
| terest Company on account 20,000 0 0       |           |     | _ |
| Cash on hand and on deposit \$1,502 5 8= £ |           |     |   |
| Profit on reversions fallen in, &c         |           |     |   |
| Balance from general account               | 28,002    | 19  | 5 |
| Total£                                     | 2,403,780 | 15  | 1 |
| CR.—Terminable annuities £                 | 924       | 0   | 0 |
| Balance, Dec. 31, 1866, consisting of—     | 024       | 0   | v |
| Funded property £ 482,801 3 2              |           |     |   |
| Mortgages 1,583,990 3 11                   |           |     |   |
| Loans on policies 125,887 10 0             |           |     |   |
| Reversions 130,619 13 9                    |           |     |   |
| Life interests 67,700 6 8                  |           |     |   |
|  | 9 109 856 | 1.5 | 1 |

### AUDITCRS' REPORT.

Feb. 13.—We, the auditors of the Reonomic Life Assurance Society, having carefully examined the accounts of receipts, disbursements, and investments during the past year, and having compared the same with the vouchers produced, do report that we have found them correct.—John G. Stilwell, John Howell, Henry Roberts.

Total.....£2,403,780 15 1

| STATEMENT FOR THE YEAR 1806.                         |           |
|--|-----------|
| Number of proposals received                         |           |
| Policies issued                                      |           |
| Proposals declined                                   | 57        |
| Not completed  | 49        |
| Number of policies remaining in force at end of year | 9308      |
| Amounts assured thereon                              |           |
| Absolute bonus                                       | 752,528   |
| Total liabilities                                    | 8,396,504 |
| Sums assured by new policies                         | 378,570   |
| Amount of new premiums                               | 11,872    |
| Total premium revenue                                | 219,594   |
| Invested capital                                     | 2,402,857 |

On 216 policies assuring 171 lives in the sum of 208,330%, including bonus.
Out of 216 policies determined by death, 187, assuring 143,833%, carried 38,840%, bonus. The CHAIRMAN said, in moving that the statement just read be The CHAIRMAN said, in moving that the statement just read be received and entered on the minutes, that it would not upon the present occasion be necessary for him to detain the court with any lengthened remarks. The figures submitted would enable the policy-holders to form for themselves a tolerable idea of the state of the business of the office, and those in the habit of attending the annual meetings would, doubtiess, compare those figures in previous statements, and particularly those of last year. Upon the whole, the directors were satisfied with the business effected in the offices during the last year. As he had before mentioned in that room, it was observed that the state of commercial prosperity or otherwise throughout the country, and the state of the money market in the City, was always more or less a good index as to the state of the business of a life assurance office. As far as their experience went, the commercial depression that had taken place at the early part of last year had its market effect upon the business of that office, as he believed he might say—at any rate, as far as common report went—had been the case and the state of the money market in the City, was always more or less a good index as to the state of the bisiness of a life asymane office. As far as their expected of last year had its market effect upon the business of that office and the article and of last year had its market effect upon the business of that office and the article of last year had its market effect upon the business of this society had noticed it in various ways—for instance, by the falling-off oppopulation and the last year had noticed it in various ways—for instance, by the falling-off oppopulation and the last year of the society had noticed it in various ways—for instance, by the falling-off oppopulation and the last year of the properties was rather peculiar, for it seemed they had effected in 1866 a unmer processly similar to that during the preceding year. The number of policies issued in 1856 was 447 action to the total amount being 35,3700, while the average of each policy was 846, in a second of 1285, a difference of about 1821, per policy. The new premiums amounted to 11,390, acainst 15,160, the previous year; but the total premiums for the year of premiums of nearly 12,000, was counterbalanced by premiums bott by death, and lapses of policies in different ways. That was a matter to be expected—persons would die, although they had insured their lives, consequently, premiums of premiums of nearly 12,000, was counterbalanced by premiums lost by death, and lapses of policies in different ways. That was a matter to be expected—persons would die, although they had insured their lives, consequently, premiums of premiums of nearly 12,000, as year the ways of the premium of th

Cook thought the best way of advertising would be to publish in the newspapers a full report of the proceedings of the annual meeting. As to the higher rate of interest obtained upon their investments, he would ask what descriptions of securities were held?——The CHATRAM a said the securities held were chiefly upon mortgages. Loans were granted to public boards, who borrowed money upon the security of rates. Those securities paid 5 per cent, and the money came in periodically under Acts of Parliament.—Mr. Cook had merely put the question to bring out the answer, for he had not for one moment supposed the directors would lend money recklessly in order to get a high rate of interest, and that it should be known that those who wished could at all times borrow money upon their policies.

that it should be known that those who wished count at a contract the policies.

Mr. Downes (the actuary) in reply to a question, stated that the item of 20,000. or the Norwich Union Reversionary Interest arose thus—the Economic Society purchased the business of that office, but in conducting the purchase certain delays occurred in completing the security. In order to meet the requirements of the shareholders of that society, and to prevent their dividend being delayed, the Economic Society advanced 20,000. on the security of vosted deeds, pending the investigation. That had been completed, and the loan of 20,000. came back.

pending the investigation. That had been completed, and the loan of 20,000L came back.

The CHAIRMAN, having put the question, the resolution for receiving the balance-sheet and ordering it to be eatered on the minutes was put and carried. The award to the auditors of 160L for their services during the past year was passed. The auditors were re-elected.

The CHAIRMAN whished before the meeting separated to state that the question as to the extent to which the directors were justified in going with reference to advertising expenses was very much for the policy-holders themselves to determine; but the directors, acting upon their "economic" principles, had been very cautious about expending what they found from their own expreience not to be very fruitful. At the same time, he was fully aware there was such a thing as bad economy—that money might be withheld, and so prevent its being fruitful; but the directors would keep the subject in mind, and would not hesitate to employ money in that direction when it could be done with success.

A vote of thanks was passed to the Chairman, directors, actuary, and secretary for their services during the past year.—The Chairman, and acknowledged the compliment, sald they all had but one common interest to serve. They were all largely interested in the society, and the mutual principles under which they were happily established made them in duty bound to work in one common cause. He hoped they would for many years continue to meet under the same satisfactory circumstances as at the present time.

The meeting then separated.

#### MWYNDY IRON ORE COMPANY.

MWYNDY IKON ORE COMPANY.

The annual general meeting of shareholders was held at the offices of Messrs, John Taylor and Sons, Queen-street-place, on Wednesday, Mr. CHARLES CAPPER, M.P., in the chair.

Mr. N. M. MAXWELL (the secretary) read the notice convening the meeting. The report of the directors stated that the receipts for the past year have amounted to 21,9281, 13s, 9d. The expenditure has been 17,5271, 19s, 6d., leaving a profit of 44001, 14s, 3d., out of which interest upon the mortgage amounting to 11991, 11s, 8d. has been paid, and the balance of 29011, 2s, 7d. has been carried to the profit and loss account, increasing the amount to the credit of that account to 35361, 3s, 6d. The directors cannot on the present occasion recommend a dividend out of this sum, but that it be applied with the current profit now making to the payment of the next instalment of the mortgage which falls due. The serious effect which the panic of last year exercised upon the iron trade led the directors to the determination of reducing the yield of ore, and realising the large stock which they had on hand. They accordingly discharged a considerable number of the men employed, and in consequence the yield of ore for the twelve months has been decreased by at least 10,000 tons; had the trade been better, and this ore returned to market, a profit exceeding that of last year would have been reached. The policy of the company has been to keep down the expenses, but not to neglect the development of the mine. The works of opening have been vigorously proceeded with, and when the time arrives that a better demand may be had for the ore large profits will be realised from the outlay made during the past and preceding years. The mortgage debt is now reduced to 25,0001, a further payment of 50001, will be due at the end of this year, and the funds in hand will be sufficient to meet this payment, and it is to be hoped, with the addition of the profits for the current year, enable the directors to recommend the payment of a good divide

A nett profit was made, after payment of the interest upon the mortgage debt, of 2001. 2s. 7d. The report concluded by expressing a full conviction that the mine will continue to produce large quantities of ore at a moderate rate of cost for many years to come.

The CHAIRMAN moved that the reports and balance-sheet be received and adopted. The position and prospects of the undertaking were so fully set forth in the several reports submitted to them that nothing was left for him to add upon those points. He need hardly state that, in common with most other branches of enterprise, the iron trade had been excessively be had during the past year. They had felt the wave of the panic, and, in consequence, had been reducantly compelled to reduce their estated production, which accounted for the fact that, as compared with the preceding year, the quantity of ore rateed during the past 12 months was reduced something like 10,00 tons. Those familiar with such operations did not require to be informed that, although the rate of production might be reduced, the fixed charges remained unaltered, and that, therefore, the proportion of proft was reduced in a similar ratio. The which night be naturally booked for contemporations with a mineral profit upon which they desired information.

Mr. Taylor, who was present, would gladly acquaint the shareholders with reference to any particular point upon which they desired information.

Mr. Taylor, stated that the directing managers had, in their report, given the result of the past year's operations, and it had been seen by Capt. Vivian's report that the deposit of ore appeared to have entered completely into the limestone, and was worked aimost like a honeycomb. During the sould not at present say; but they knew that in the neighbourhood there was a mine that had been working for a century, where the own was surrounded, so to speak, by the limeston, and was worked aimost like a honeycomb. During the sould not an increased the remove the past of the past year, and would be able to m

prictor to go to the company's office, and examine the whole of the documents in connection with the company from its formation, for that could not fail to satisfy him as to the perfect bona fides of the whole concern.

Mr. Bowden stated that not only had the yield been much below that calculated, but the cost of returning it had far exceeded the amount computed. He thought he had a right to ask for some explanation upon this point, and the mine particularly, as during the past year a better price had been obtained for the ore than at any former period since 'he mine had been in the hands of the company. —The SECRETARY explained that the item in the balance-sheet for the sale of ore included the carriage, which was plainly set out in the accounts, if the proprietor would examine them.

Mr. Bowdens said that it appeared a profit had been realised throughout the past year of 2s. 1d. per ton more than during the previous year, and, under those circumstances, he should have thought it would have been the duty of the directors to have made larges ales. He was aware they had been told that the unrectors to have made larges ales. He was aware they had been told that the unitavourable state of the financial world had affected the iron trade, but certainly the small difference that any increased sales they might have made could not have been affected by the crisis.

Mr. A. BroGEEN stated that when this company was started it was generally thought by those able to judge that it was going to be a valuable addition to South Wales, and it had proved so to a very great extent. He could not understand the remarks made by the proprietors in reference to the large number of shares taken by Mr. Samuel Gurney. Mr. Gurney had a perfect right to apply for as many shares as he pleased, provided that he paid for them. He (Mr. Brogden) was quite sure that Mr. Samuel Gurney's connection with the company was of a bona five and straightforward character. (Much applause.)

A SHAREHOLDER: All those who knew Mr. Samuel Gurney could be of no

ded in indicious adfoundation for which rested only within his own imag ination, since they had ss.—Mr. Charles been so fully contradicted at this meeting.

The CHARMAN, in reply to a remark as to the market price of the shares, stated that that had nothing whatever to do with the intrinsic value of the property. From his position with reference to another company which had to do with the sale and purchase of shares, he could inform the hon. proprietor that the cost price of shares had nothing whatever to do with their value in the market. He could give 20 instances in which shares which he knew to be intrinsically valuable were being sold at prices which were perfectly ridiculous. At the same time, he might inform the hon. proprietor that the directors of this company could not in any way be responsible for the price at which their shares could be sold in the market, however much they might feel that the price was utterly absurd. He could only say with regard to himself he had never bought or sold a single share since the commencement of the company, and he could say the same with reference to many of his co-directors.

The motion for adopting the report and balance-shect was passed.

The retring directors were re-elected, and the appointment of Mr. Brogden as director was confirmed. Captain Richard Wilson Pelly, of the Royal Navy, was elected a director of the company. The retring anditor was re-appointed, and Mr. Fletcher was appointed an additional auditor.

A vote of tbanks was passed to the Chairman and directors. The meeting then separated.

#### RHENISH CONSOLIDATED MINING COMPANY.

RHENISH CONSOLIDATED MINING COMPANY.

A general meeting of shareholders was held at the offices, Austinfriars, on Wednesday,—Mr. PHILIP WRIGHT in the chair.

Mr. J. H. MURCHISON (the secretary) read the notice convening the meeting. The report of the directors stated that there had been a large increase in the returns of ore as compared with the previous year; that the Chairman and one of the directors had recently visited the mines, who were much pleased with the prospects; and that the board strongly recommended the shareholders to proscente the operations with vigour, being, they believed, the soundest, policy, and one that would lead to profitable results.

The report of Mr. Darlington (the consulting engineer) stated that there were several interesting points to prove, and that it must be borne in mind the expenditure had been incurred in the purchase and erection of the machinery, and but comparatively little had yet been done in opening the loddes.

The CHAIRMAN, in moving the adoption of the the report and ac-

several interesting points to prove, and that it must be borne in mind the expenditure had been incurred in the purchase and erection of the machinery, and but comparatively little had yet been done in opening the lodes.

The CHAIRMAN, in moving the adoption of the the report and accounts expressed his regret at the absence, through illness, of his fellow-voyager, Mr. Parke Pittar. He stated that the result of their journey had been, as was stated in the report, a full conviction that the prospects of the mine were even such as to encourage the shareholders. For some time past several of the workings had been in unproductive ground, but there were indications in very many directions of better things. Explorations had been made, which has some respects had not entirely answered the expectations which had been formed; but it should be borne in mind that these explorations had been made, which has some respects had not entirely answered the expectations which had been formed; but it should be borne in mind that these explorations had been very slight, while there was an extensive back ground and depth, which had not been touched. The character of the lodes, both in Christiana and Bielbach, was, as he was informed, peculiar, so that the miner might be within an inch of a profitable discovery and pass it by. There had been two or three pitches driven in spots which had been, as it were, accidentally discovered only lately; and these promised not only to increase in their yield, as had been shown by an estimate from their engineer, which gave only 3 tons per fm. In Pittar's shaft, while the report but a few days before of the mining captain made the yield 4 tons; but, in addition, the ore seemed to increase in quality and value. He would observe that the company had been working only three years and a quarter, for the first fifteen months of which time the whole expenditure had been on works necessarily of an unproductive, but not, therefore, of a uscless character. During the two years, however, in which they had ma

Votes of thanks were passed to Mr. Younghusband (the company's representative in Germany), and to Mr. Darlington (the consulting engineer). A vote of thanks was passed to the Chairman and directors.

The meeting then separated.

CARNARVONSHIRE CONSOLIDATED LEAD MINES CO. An extraordinary general meeting of shareholders (convened by requisition) was held at the London Tavern, on March 22. Mr. HENRY MLPORD was voted to the chair.

Mr. HENRY MLPORD was voted to the chair.

Mr. CARPENTER said, as he saw Mr. Warton, the new secretary of the company—or rather of the committee of directors—present, he would as him whether he was there to take minutes of the proceedings, and to discharge the other dule of secretary 7—Mr. WARTON: Certainly one requirement of clause 53 in the Articles of Association, left with Mr. Warton, as the secretary of the company, 14 practice, representing the holders of 35 shares, at 12 od on the preceding day, and he now whichet to know whether Mr. Warton has been considered to the proceeding day, and he now whichet to know whether Mr. Warton has been considered to the proceeding day, and he now whichet to know whether Mr. Warton has been considered to the same passed of the company, and placed them in his hands, telling him that they were practice to be used at the meeting on the felt of the company of the company, and placed them in his hands, telling him that they were practice to be used at the meeting on the felt of the same passed of the same passed discharged the same passed discharged

unfortunate dispute that existed between the directors and Mr. Lelean.

CARPENTER hoped the Chairman would excuse his interruption, just to
CARPENTER hoped insula between the directors and Mr. Lelean. It was a

e unfortunate dispute that existed between the directors and Mr. Leiean, r. CAMPENTER hoped the Chairman would excuse his interruption, just to y that there was no dispute between the directors and Mr. Leiean. It was a spute between three of the directors who had been appointed by the board as sommittee "to enquire" into the statements made by one of the three, but to the management of the mines and of the company; and, what was more to the management of the mines and of the company; and, what was more consent of the other two directors, who had protested against them. The CHAIRMAN said he did not know all the particulars of the dispute; all he new as that it was very destrable the dispute should be brought to a close, and that this meeting had been called to take steps for effecting that object, are resolutions which had been prepared for the meeting were now open for any areholder to move. He might add, however, that they were not obliged to apt the whole of them, or to adopt them without alterations. They might, in her respects, do as they pleased, and as they deemed best adapted to answer e purpose of the meeting. Huquenns, seconded by Mr. Staples, it was unamously resolved.

purpose of the meeting, pour pose of the meeting, purpose of the meeting, purpose of the meeting, post the proposition of Mrs. Huquenin, seconded by Mr. Staples, it was unaway resolved—
That the suit instituted in the Court of Chancery by James Major Darwent others, on behalf of themselves and all other members of the Carnaryon-others, on behalf of the Mines Company, Chainted), other than such of the de Consolidated Lead Mines Company, of Limited), other than such of the de Consolidated Lead Mines Company, on the Henry Stevens, John Kito, not Baker Lelean, William Carpenter, Samuel Henry Stevens, John Kito, not Baker Lelean, William Carpenter, Samuel Henry Stevens, John Kito, not Baker Lelean, William Carpenter, Samuel Henry Stevens, John Kito, at least for the benefit of the company, or of the shareholders therein, other the defendants thereto; and that it is contrary to the best interests of the pany, and of the shareholders therein, that such suit should be further propany, and of the shareholders therein, that such suit should be further propany.

the defendants thereto; and that it is contrary to the best interests of the bank of the shareholders therein, that such suit should be further protect.

The defendants thereto; and that it is contrary to the best interests of the bank, and of the shareholders therein, that such suit should be further protect.

That in the option of this meeting it was inexpedient and wholly important in the option of this meeting it was inexpedient and wholly important in the option of this meeting it was inexpedient and wholly important in the option of this meeting it was inexpedient and wholly important in the option of the shareholders, and that against of the present directors of the company, to have instituted the suit against of the present directors of the company, and the said company and the said company and the said company and that they have taken, they have greatly leopardised the best by the other steps they have taken, they have greatly leopardised the best by the other steps they have taken, they have greatly leopardised the best by the other steps they have taken, they have greatly leopardised the best part of the shareholders; and that they be, and they are hereby, removed from the office of pany, and that they be, and they are hereby, removed from the office of corns of the company.

The shareholders would very properly throw, by passing these resolutions, the shareholders would very properly throw, by passing these resolutions, the shareholders had been commot as directors.—Mr. Staplas shald that the shareholders had been commot as directors.—Mr. Staplas shald that the shareholders had been commot as directors.—Mr. Staplas shald that the shareholders had been commot under the second of the shareholders had been commot det of directors. The shareholders had been appropriy which it was adversed to understand anytheredolders had not paid their money to have committee of directors.

The shareholders develope a property which it was adversed to the shareholders had been appropriated by the shareholders five and

onest. sition of the Chairman, seconded by Mr. Staples, it was una

resolved—
the Rev. Benjamin Crompton and Baker Lelean, Esq., be, and they
r, appointed directors of the company.
proposition of Mr. STAPLES, seconded by Mr. CARPENTER, it was

ed—the directors of the company be, and they are hereby, required in the the company to defend the said suit, and to resist the claim of the cherein to the utmost of their power. I thanks was passed to the Chairman, which terminated the proceed-

#### GOVERNOR AND COMPANY OF COPPER MINERS IN ENGLAND.

At the meeting of proprietors, to be held on April 3, the report of he Court of Assistants will state that the profits for the year ending annary 19, after deducting everything chargeable against the same, mounted to 17,879.16s., and when from that sum is taken the debtor alance of 11,684. Iss. 6d. brought over from the previous year, their ormains 11,68. d. available for a dividend upon the preference shares. At the end of the year further reductions were made in the valuations of the saleable stocks, and also the sum of 1407.0s. 6d. was written off to suspense account, to cover hatever loss might arise from doubtful debts. These two precautions are between the sum of 1407.0s. 6d. was written off to suspense account, to cover hatever loss might arise from doubtful debts. These two precautions are between the sum of 1407.0s. 6d. was written off to suspense account, to cover hatever loss might arise from doubtful debts. These two precautions are between the sum of a sufficient, and the accounts, after careful investigation of the commy's affairs, are presented with the fullest confidence as regards their accuracy and faithfulness. The works and mines have been maintained in an effective indition for anticipated future requirements, and in some respects their efficiency, especially in the tin-plate works, has been materially increased. The tire cost of such maintenance and improvement has been paid out of revenue, broughout the year the copper trade has been in a very variable and uncertain indition, and at one time the market reached a point of depression unknown r many previous years; the tin-plate trade has fluctuated, but, on the whole, is been satisfactory. Owing to the high reputation in which the company's and are held, a very fair business in both these branches of trade has been inc. The bar-iron trade, which throughout the kingdom generally has for a single period been comparatively unremanerative, became in the latter part of the are excessively depressed, and with but little prospect of early permanen

THE LONDON STEAM COLLIER AND COAL COMPANY (Limited) as company gives evidence of a prosperous future, which is indeed aply proved by the results of its past working, as shown by the distors in their report to the shareholders at their recent meeting. ors in their report to the shareholders at their recent meeting, accounts represented the result of the company's operations for the less than a year at the colliery; for one year and four months expire Wharf; and for about four months' working of the steamer Ludication of the theories of the theories of the through the three results of the steamer Ludication of the three departments of the company's business, after paying all the charges of the central three three departments of the company's business, after paying all the charges are to each, amount to 12,0311. 78. 11d. for the colliery; 43951. 16s. 10d. for wharf; and 17st. 1s. 10d. for the steamers, making a total of 16,0951. 6s. 7d. 10st this total of nett profit there are, as per profit and loss account, the great handon for interest, office expenses, directors' remuneration, and law s; after destucting these, there remains a balance of 78:251. 16s. 3d. In favour the company. Of this balance, 10311, 1865, and June 39, 1866: 20004, has been placed reserve fund to meet depreciation in the value of the plant of the company and as uno 47:41.6s. 6d. at the disposal of the company the present time. reserve fund to meet depreciation in the value of fee; 2000l, has been placed reserve fund to meet depreciation in the value of the plant of the company, ring a sum of 4774l, 0s. 6d. at the disposal of the company at the present time, leading with this amount, the directors recommended that a dividend at the of 10 per cent. per annum be paid for the half-year ending Dec. 31, 1866, an additional 5 per cent. per annum for the previous half-year, making a of 10 per cent. for the entire year. This will absorb 2996l, 9s. 1d., and the due of 1771. 1ts. 5d. will be carried forward to the credit of profit and loss vaccount. Viewing this as the result of the operations of the company in first year of its existence, it cannot but be regarded as most satisfactory, as a substantial confirmation of the expectations held out to the share-lers. The colliery has yielded 220,000 tons of coal, or an average of about tous a week, since it has been in the possession of the company—a quantity ich, in course of time, as the workings are developed, will, probably, be more in doubled, with a material saving in the working expenses, while the quality he coal is such as to place it in the first rank amongst the coals brought to London market. That this colliery can be worked to a good profit is shown the accounts, and, as it is probable the price of coal will advance considered as the place of the place of the kings to the fullest except to push on the further development of the kings to the fullest except. y as time goes on, the shareholders have in this result both a guarantee of the profit, and an encouragement to push on the further development of the rkings to the fullest extent in their power.

rative, mittee . The ows:-ened-the 4L le, the ecting,

TRANSFER OF COMPANY'S BUSINESS TO NEW COMPANY.—Where my is being wound-up compulsorily, the Court of Chancery has no power, escion 95 of the Companies Act, 1862, to authorise a transfer of the compusiness to a new company, in consideration of the new company paying so f the creditors by instalments. This was the holding of the Master of is, in we the General Exchange Bank.

PROSPECTUSES.—In re the Peninsular, West India, and Southern and (Dixon's case), the prospectna was vague in the description of the objects the contemplated company, and if properly investigated by an applicant for area might have caused some mistrust as to the feasibility of the scheme; but fer application for shares he did not repudiate it. It was held by Vice-Chan-

cellor Wood that the prospectus did not contain such a fraudulent representation as to entitle applicant to have his name removed from the list of contributories

COMPOSITION DEEDS .- Although a debtor has been taken in exe cution before the signing of a valid composition deed, up Bankruptcy Act, 1861, yet, on the registration of the deed room custody. The Court of Queen's Bench thus Marks v.Hal.

#### IMPROVEMENTS IN THE TREATMENT AND MANUFACTURE OF IRON AND STEEL,

IMPROVEMENTS IN THE TREATMENT AND MANUFACTURE

OF IRON AND STEEL.

Mr. JOHN CALVERT, C.E., has just specified his patent, which consists in "certain improvements in the treatment of iron, whereby it is manufactured or converted into iron possessing welding properties of a high order, or into steel of the best quality, in a simple, effectual, and economical manner." Before describing the processes which constitute his invention, he makes some observations which will tend to elucidate the principles upon which it is based.

Iron has but little affinity for or inclination to form alloys and chemical combinations with metals and many substances, and, therefore, when subjected to the influence of heat it will generally disengage itself from its chemical combination with other metals or substances, which will be wholly expelled, or be retained only in mechanical mixture with the iron. Iron crystallises when cooling, or when under the influence of percussion or vibration, or of electric or magnetic currents, and is always more or less cellular polythallamic). Such crystallisation may be divided into four classes. The first kind (placoidean) is that which occurs in fron, which is comparatively pure, such as meteoric fron. The second kind of crystallisation (sphenoidean) may be compared to that which exists in granite, the crystallisation policioidean may be compared to that which exists in granite, the crystallisation policioidean may be compared to prophyry, as the crystals estimated to prophyry, as the crystals and in purities, which are more or less imperfectly melted, and is but little adapted for the purposes of manufacture. The presence of titanium and other metals of a similar refractory nature often produces this quality of iron. Iron, which i

bonised too rapidly to allow of its being these trivention is important, inasmuch as inferior kinds of metal may be retained at a low heat until they are tolerably well cleansed.

In order to prepare the iron for the necessary subsequent treatment, and to cleanse it from the various foreign substances with which it is combined, it should be brought to a red heat, so that the carbon shall be partially retained until the iron shall have been cleansed from the other impurities, for which purpose, and to prepare it for the necessary subsequent treatment, it should be in the first instance brought into thorough contact with oxygen, either in its pure state or as it exists in the atmosphere, whereby it obtains the benefit of the chemical and electric influences of the same. To effect this contact the iron is reduced to a state of powder or fine division whilst at a red heat, by means of any suitable mechanical appliances, such, for instance, as revolving circular saws, which I will, for the purpose of description and explanation, assume as being used. The circular saws are rigidly braced together and nearly touch one another, and are set to revolve at about 1-16th of an inch out of gear. Great carmust be taken that the pig shall not cool, as it would in that case break the saws. The revolving saws may during the course of each revolution, according to the temperature required, touch or become partially immersed in water or cold sand. Whilst the saws are disintegrating the iron or exposing its particles to the oxygen of the atmosphere, purification of the iron is rapidly taking place, for as each particle of iron becomes liberated by the saws it will immediately absorb oxygen of the atmosphere through while the red hot particles of iron fail. It will be evident that the temperature to which the iron shall be exposed will be entirely under the centrel of the operator, and if the pig be very impure, or contains much sulphur, phosphorus, or silicon, it will be manifest that the temperature to which the iron shall be expo

particles to fail into water, or to suspect that to be so employed must, of course mical solutions.

The nature of the gases or solutions necessary to be so employed must, of course vary, and depend upon the chemical constitution and nature of the iron underatured, and the character of the element which it is desired to impart to abstract from the Iron in order to arrive at the desired results, as will be understood by persons conversant with chemical and metallurgical operation.

As examples of the gases which may be so used, carbon leaded gas, carbonic oxide. abstract from the iron in order to arrive at the desired results, as will be well understood by persons conversant with chemical and metallurgical operations. As examples of the gases which may be so used, carboale acid gas, carbonic oxide, oxygen, and hydrogen may be named, whilst cyanide of potassium, carbonate of lime, and nitrate of soids in solution will represent the liquid solutions which may be employed. In cases in which it may be found necessary to retain the particles of from at a red heat for any considerable length of time for the nurpose of getting rid of impurities, the red hot particles may be contrained the particles of the constitution to the hearth of a reverberatory or other suitable furnace, and being there kept the desired length of time at a red heat, the particles may be allowed to agglomerate together into balls, which they will readly do. In order to impart or develope the amount of magnetism to or in the individual of the constitution of the crystallineor grained structure which is essential to produce the degree of strength desired, and also to assist in the further cleansing or purifying of the same, the finely divided iron charity, or acquired the same through the same have not originally possessed such polarity, or acquired the same during the operations to which the iron has been subjected. This is effected by placing the finely divided iron cither in a heated or cold state in contact with iron which has been permanently or electrically magnetised, or by passing an electric current through the mass during treatment, or by agitating the iron their gap has a produced to fall from a considerable height through the atmosphere, the result being that the several particles acquire the requisite polarity.

The iron having been, as hereinbefore mentioned, treated whilst in a state of minute division, and consequently entirely and thoroughly under the control of the operator, the mass is thereby fitted for introduction into the furnace, in which it is brought to a welding heart. The iron s

If, during the process of purification, too much carbon shall have escaped from the iron, then, if the conversion of the latter into steel be intended, carbon must be added thereto, either by the addition of powdered graphite springled over the mass during the process of "balling," or byany other known and suitable method, or boron, either in the form of borax, boracic acid, or in other chemical combination may be introduced at this or other stages of the manipulation, either independently of the carbon or otherwise. In order to form steel from the malicable iron, in which the carbon exists in mechanical union, it is necessary to cause a portion of the carbon to recombine chemically with the iron, which it will do simultaneously with the compression or coltapsing of the clongated cells, and which may be effected by means of a succession of percusive blows, or by the sudden application of cold to the heated mass, or by the known methods of carburisation. The strongest description of steel, as at present manufactured, is a chemical combination of carbon and iron, with a small percentage of one or more foreign metals, such as manganese, itanium, or silicon in alloy with the iron, such alloy having mechanically combined therewith a sufficiency of foreign matter to partially occupy and fill the cells, and to protect them from total collapse. What is required for the production of steel of the best quality is combination therewith of a substance or substances harder than itself, such for example as carbon or boron, and the metals which will come next in succession according to their relative hardness, but it is also requisite that some hard substance should occupy the cells, or portions of the cells, in the minutest mechanical division; for the purpose of imparting rigidity to the mass, crystallised carbon (diamond) or crystallised boron I consider to be the best adapted for this purpose. Carbon in the state of graphite will be of little use except in articles of inferior quality, therefore to crystallise some portio

cation of a cooling agent. Great care must be taken that the heat engendered by the force of sudden collapse caused by change from heat to cold or hammer blows shall not neutralise the effect by its own agency. By the means hereinbefore described the strongest quality of steel is produced, its superiority being chiefly owing to the compressed cells of the steel being more or less filled with crystallised carbon (diamond), boron, or other hard substances, instead of carbon being retained in the cell in the form of graphite, as heretofore. Having thus fully declared and ascertained the nature of my said invention, and the manner in which it is to be performed, I would observe, in conclusion, that what I consider novel and original, and, therefore, claim as being the invention secured to me by the said hereinbefore in part recited Letters Patent, are—First, the employment of crystallised carbon in the manufacture of steel, as hereinbefore described and set forth; and thirdly, the treatment and manufacture of iron and steel in the manner and by the processes substantially hereinbefore set forth and described, or any mere modifications thereof.

#### [ADVERTISEMENTS.]

as hereinschord osception and set forth; secondry, the use and apprecause or thirdly, the treatment and mandacture of iron and setel in the manner and by the processes substantially hereinschore set forth and described, or any mere modifications thereof.

[ADVERTISMENTS-1]

From Mr. EDWARD COOKE:—There has not been quite so much business doing, but it is easisfactory to find that the Market for Mining Shares has been steedier than that of other securities. This fact has been noticed in the second of the securities. This fact has been noticed in the control of the second of the second

LARGE'S "WAY ABOUT LONDON."-This work, which has taken LARGE'S "WAY ABOUT LONDON."—This work, which has taken some years to accomplish, and is now creating some sensation, will be an invaluable guide to travellers in the great city, and especially to many of our Cornish friends, who are more familiar with driving levels and cross-cuts than with the winding of our streets and the short cuts of our alleys. The work takes six starting points—the Angel at Islington, the Elephant and Castle, Hyde Park Corner, London Hospital, Marble Arch, Oxford-street, and St. Paul's, and gives directions how to reach any street or place in London from either of these points. It also gives the route from each of the principal railway stations, and from twenty railway stations in the envicipal railway stations, and from twenty railway stations in the environs of London, to the nearest starting-point, all arranged in alphabetical order. For instance, a traveller arriving at Paddington Station would find his route to any part of London thus—"Paddington Railway Station to St. Paul's".—From Paddington Railway Station, up Praed-street, to the Edgeware-road, turn to the right, down the Edgeware-road, to Oxford-street, Holborn, Skinner-street, and Newgate-street, to St. Paul's on the right. ipal railway stations the right.

RAILWAY DEBENTURES, AND HOW TO DEAL WITH THEM.—For rears past the pamphlets issued by Effingham Wilson have enjoyed the reputation of combining sound common sense with great practical utility, and that reputation will not be in any degree lessened by that which bears the above title. The suggestion made is that authority should be obtained for the issue of a Jovernment stock at a rate of interest that will ensure its being taken at par, uch stock to be issued in exchange for railway debenture stock, upon the companies affected fulfilling certain conditions.

How to KEEP SHARE REGISTERS.—A very valuable pamphlet has just been published (through Mr. R. Clarke, of Threadneedle-street), by Mr. A. L. Lewis, entitled "How to Keep Share Registers in the most easy and expeditions manner, on a system now in use by various ploit-stock companies, and strictly la accordance with the Companies Act, 1862." The pamphlet contains explanations of the use and object of every book requisite from the time of originally issuing the prospectus until the final dissolution of the company, patterns of the books being, in all cases, given, by way of elucidation.

Mr. John Walker Ford, accountant, of Walbrock, has been ap-pointed by the Master of the Rolls to be official liquidator to the Stowe Iron Ore company (Limited).

## Mining Correspondence.

#### BRITISH MINES.

BRITISH MINES.

ABRAHAM CONSOLS.—J. Vivlan, March 28: The shaftmen sinking the engine-shaft continue to make fair progress in sinking. The lode in the 9, driving east, is not so good for tin as it has been; this level, driving west, is much the same as it has been, worth 81. to 61, per fm. for tin. The lode in the adit, driving east, is much the same as for some time past, not producing enough tin to value. I have two men clearing up some of the old men's pit, and find tin in almost the whole of it, but the very heavy falls of rain we have had recently prevents us from going deep enough to get it in paying quantities.

BEDFORD UNITED.—J. Phillips, March 28: The stopes throughout the mine continue to produce the same as when last reported. We are driving by the side of the lode in all the levels at the north shaft.

BEDOLAUR.—R. Harvey, March 28: The shaft is now down 89 yards from surface; set to eight men, at 181. 10s, per fathom; the ground is rather more favourable for sinking. The cross-cut in the 70 west is producing stones of lead, by which we expect shortly to cut the lode. Jones's pitch, set at 71, per ton, is producing 10 cwts, of lead per fathom. We are erecting the whim with all possible dispatch.

producing 10 cwts. of lead per fathom. We are erecting the whim with all possible dispatch.

BLACK CRAIG.—J. Smitham, March 28: The lode in the 54, driving east on Harriet's lode, is producing about 7 cwts. of lead per fathom, and about the same quantity of blende; it is a pretty-looking thing. The lode in the 54, driving east of the cross-cut, on the new discovery, is producing from 5 to 6 cwts. of lead per fathom. We shall commence next week driving a cross-cut north from the 54 end west. The stopes in the back of the 6, below the 43, are producing about 30 cwts. of lead per fathom.

BOTTLE HILL.—Joseph Eddy, March 28: Fridaylast being our setting-day, the following bargains were set:—Main Lode: To four men a stope in back of the 24, east of Bucking-house shaft, where the lode is about 5 ft. wide, worth about 44. per fathom; cost for stoping, 30s, per fathom. A pitch to four men, in back of the 12, west of new shaft; tribute, 13s. 4d. in 1l. The lode in this piece of ground has a very kindly appearance, and at present turning out good work for tin.—South Copper Lode: The 24 to drive west of shaft by four men, at 4l. per fathom; the lode is still small. A pitch in bottom of the 12, east of cross-cut, to two men, at 13s. 4d. in 1l. tribute; the lode here about 2 ft. wide, and turning out good stamps' work. We have put four men to sink on a lode north of Roberts's lode; we have now sunk about 3 fms. from surface, and find the lode 3 ft. wide, all saving work; this lode discovered is in whole ground from surface. We shall commence burning for our next sampling the early part of the coming week.

BRONFIGURD —Thomas Kemp. March 27: During the past week

the lode 5 ft. wide, all saving work; this lode discovered is in whose strains the lode 5 ft. wide, all saving work; this lode discovered is in whose strains were surface. We shall commence burning for our next sampling the early part of the coming week.

BRONFLOYD UNITED.—Thomas Kemp, March 27: During the past week the water has so much increased at the new shaft that we found it impossible to continue the sinking by manual force, and I have, therefore, suspended it for the present, until the new wheel is ready to work. The shaftmen in the meantime will be employed in cutting lodge in the 52, and in fixing pumps, &c., so that we shall be able to carry the wheel down with dispatch as soon as its ready. The lode under the 52, and in the stopes above this level, are without any change since last report. We have good open weather, and we make the best of it. We sampled 35 tons of lead ore on Monday last.

BRYN GWYN.—H. Nottingham, March 26: The level driving south-west from middle of incline, east of shaft, has become much easier for driving again, but without any other change. There has been nothing done in the lower level, south of incline, the men being engaged tramming and wheeling stuff in other parts of the mine. There is no change in any of the trials about the middle of their length of the control of the control of the control respired to any the tributers' pitch in the bottom of the north level, near Field's rise, has fallen off in value since my last, the ore being cut off by a narrow joint crossing the end, though it may again make lead after a little further driving. The trials we are making about the north part of the mine by the stem-work men are yet unproductive.

CADE CORNWALL.—R. Pryor, W. White, March 27: The lode in the 90 fm.

row foint crossing the end, though it may again make lean after a little further driving. The trials we are making about the north part of the mine by the stemwork men are yet unproductive.

CAPE CORNWALL—R. Pryor, W. White, March 27: The lode in the 90 fm. level is still worth 101, per fathom, with a good appearance. The lode in the toppe in the back of this level is worth 91, per fathom. The lode in the 70 fm. level, west of shaft, continues to produce good stones of rich yellow copper ore, and the ground getting redder, as if nearing the canner lode.

CARADON CONSOLS.—S. Bennetts, March 26: The 90 west is without much alteration. The 80 west is slightly improved, and so also is the winze below the 80. The ground in the rise above the 54 is good, and the elvan on the south side perpendicular. The water is very abundant in the new shaft, being the result of the late heavy rains.

CLARA UNITED.—J. Davis, March 27: The mine is drained to about 5 fms. below the 40, and the men have resumed work in that level. I expect all the water will be out by next Friday. We are in full work at surface, and we sampled 90 tons of lead ore on Monday last.

CROWAN AND WENDRON.—R. Reprolds, March 27: The late heavy rains have been very much against our surface operations, but I am glad to say the whole is now on the eve of completion, and in two or three days we shall put the wheel to work.

CWM ERFIN.—March 26: The stope in back of the 20 has slightly improved since the last report. The lode is 5 ft. wide, worth 1 ton of lead ore per fathom.

CROWAN AND WENDRON.—R. Reyrolds, March 27: The late heavy rains have been very much against our surface operations, but I am glad to say the whole is now on the eve of completion, and in two or three days we shall put the whele to work.

CWM EIRTN.—March 26: The stope in back of the 20 has slightly improved since the last report. The lode is a ft, wide, worth 1 ton of lead ore per fathom. For the containing killas, blende, and cubes of lead ore. Two the containing well of the containing killas, blende, and cubes of lead ore. Two the containing well of the containing killas, blende, and cubes of lead ore. Two the containing killas, blende, and cubes of lead ore. Two the containing very pending over the back of the 10: the lode varies from 3 to 6 feet wide, composed of a slight clay-slate, decomposed quartz, and cubes of lead ore—look-ing very promising. The lode in the stope over the back of ilto is worth? I to not lead ore per fathom. Taylor's drift, soing east of the boundary, has continued to lay open a lee place of ore ground since the last robot of lead ore per fathom. Taylor's drift, soing east of the boundary, has continued to lay open a lee place of ore ground since the last robot of lead ore per fathom. In William's level we are still cross-cutting south, but there is no alteration as yet to remark. Two stopes are in course of working over the back of this level, in which the lode will yield on an average 12 cwts, of lead ore per fathom. The lode in the altit level, west from the cross-cut, in the western part of the sect, is 6 in. wide. Composed of killas, decomposed quartz, and of lead ore per fathom. The lode in the altit level, west from the cross-cut, in the western part of the sect, is 6 in. wide. There is no alteration in any other part of the sect, is 6 in. wide. There is no alteration in any other part of the sect, is 6 in. wide. Composed of killas, decomposed quartz, and of challage is worth from 4 to 5 tons of good ore per fm. The lode in the 64 seast of the white well as the contrast of the will show that from the extreme point east the lode has been stoped in the 50 fm. level, to the most extreme point west in the 14 fm. level, there has been ore raised, and at several intermediate points. It is very evident therefore, I think, that blende and copper ores exist, and having so many levels driven is a much available work done, and as soon as the present levels can be cleared, and railroads put in, I am of opinion the backs and bottoms of the levels should be tried by winzes, rises, and stopes; and if this should prove the lode valuable, as I believe it will, there are several thousand fathoms of ground laid open, which must have cost the former proprietors of the mines many thousands of pounds outlay, of which we shall reap the advantage; and I believe if the mine has an effectual trial it will not only prove largely productive, but very profitable also to the proprietary.

proprietary.

EAST CARADON.—J. Truscott, March 20: Caunter Lode: The 100 east is worth 31. per fm. The 100 west is worth 51. per fm. The 90 east is worth 81. per fm.—South Lode: The 100 east is poor. The 70 west is worth 101. per fm. The 70 east, on south part, is producing saving work.

— J. Truscott, March 27: The 100 east is worth 51. per fm. The 100 west is worth 51. per fm. The 00 west is worth 51. per fm. The 90 east is worth 51. per fm.—South Lode: The 100 east is producing saving work.

The 70 west is worth 121. per fm. The 70 east, south part, is producing saving work.

weak is worth 5, per im. The so east is worth 8t. per im.—South Lode: The low east is producing saving work.

Out outh part, is producing saving work.

EAST CARN BREA.—I. Richards, March 27: The sinking of Thomas's engine-shaft is for the time suspended, and the men are engaged cutting ground above the 60 fm. level, for the purpose of bringing down and fixing permanent pixwork below that level.—Thomas's Engine-Shaft: No. 3 Lode: In the 80 east the lode is 15 in. wide, consisting of capel, nundic, quartz, and a little copper ore. The lode in the 80 west is 2 ft. wide, and worth 2 tons of copper ore per fm. The lode in theren's winze, in the bottom of the 70 east, is 1 ft. wide, and consists of capel, mundic, quartz, and a little copper ore. The lode in the 70 cast is 2 ft. wide, and worth 1 ton of copper ore per fm. The lode in the 60 east is 1 ft. wide, composed of capel, mundic, and good stones of copper ore. The lode in Morcombe's winze, in the bottom of the 60 east, is 15 in. wide, and worth 2 tons of copper ore per fm. In Lobey's cross-cut south, in the 65 fm. level, the main part of the lode has been met with and cut through; it is 1½ ft. wide,

ed of capel, fluor, quartz, mundic, and good stones of copper ors.—Buck aft: No. 6 Lode: In the 60 east the lode is disordered by a cross-course

composed of capel, fluor, quartz, mundie, and good stones of copper ore.—Buckley's Shaft: No. 6 Lode: In the 60 east the lode is disordered by a cross-course. The lode in the 60 west is 1 ft. wide, worth 1 ton of copper ore per fm. A winzer (Rowatt's) is being sunk in the bottom of the 60 west, the lode in which is 15 fn. wide, and worth 1 ton of copper ore per fm. The lode in the 50 east is 1½ ft. wide, consisting of quartz, capel, fluor, mundie, and copper ore—saving work. RAST GUNNISLAKE AND SOUTH BEDFORD CONSOLS.—J. Phillips, W. G. Gard, March 28: There is no change of importance since our last report. The water is steadily draining below the 36, west of cross-course, and is now down about 3 fathoms. The rise in the back of the shallow adit is not so productive. EAST ROSEWARNE.—C. Glasson, March 28: We have resumed the slinking of King's shaft, the lode is 1 foot wide, yielding rich stones of copper ore, and promising to improve as we get deeper. In the 95, west of King's, the lode is 6 in. wide, and for 2 feet above the bottom of the level it is worth 61, per fathom. In the 95, east of King's shaft, the lode is 10 in. wide, producing good stones of copper ore, but not enough to value; I think this end will very soon improve in value. In the 85, west of King's shaft, the lode is 10 in. wide, producing good stones of copper ore, but not enough to value; I think this end will very soon improve in value. In the 85, west of King's shaft, the lode is the same as last reported, worth 44, per fathom. The 85, east of Hallett's, and the 43, east of King's, on the engine lode, is suspended for the present, and the men put to stope the back of the 95, west of King's shaft, in a lode worth 81, per fathom. No change to notice in any other part of the mine.

EAST ST. JUST UNITED.—Richard Pryor, R. P. Goldsworthy, R. Wearne, March 27: The ground and lode at Phillipy's engine-shaft, sinking below the 20, is without change. In the 20, south of Phillipy's shaft, the lode is without change in the ground and lode at Phillipy's

great deal of water. We have not met with any look in WHEAL LOYELL.—R. Quentrail, March 27: The mine continues to open out extremely well, and at the meeting, on Wednesdty next, I will fully report therein.

EAST WHEAL RUSSELL.—James Richards, March 22: Homersham's Shaft: In the 160 eross-cut north, in the 146 east, a lode or branch has been intersected, which is 90 in. wide, composed of capel, quartz, mundic, and a little ore. Owing to the very soft nature of the ground in the 40 east, and the great pressure of water following the driving as we proceed, we find it absolutely necessary to continue the driving some distance further by the side of the lode. We hoped to have been able to see the lode to-day, but after an ineffectual trial, and a close examination of the driving, we were obliged to adopt the above course. In removing a lath, however, some good stones of ore came away with the stuff, in the 130 east, nothing has been met with.

EAST WHEAL RUSSELL.—J. Goldsworthy, March 28: Homersham's Shaft: The ground in the 150 fm. level cross-cut north is favourable—fair progress being made. The shaftmen will now be engaged in cutting down the ground loft standing in the bottom of the Panch pit, below the 140 fm. level, putting in skiproad, casing and dividing shaft from the 140 to the 150 fm. level. In the 140 fm. level eross-cut, Glo's), driving north, the ground is favourable, the stratum is highly mineralised. In the 140 fm. level east, the driving being continued by the side of the lode, the ground is heavy and wet; there is an increase of water in the breast of the end; we hope soon to overcome the difficulty with which we have had to contend, and open into the lode. In the 130 fathom level cross-cut, driving north-east of the side, the ground is eneas to the slide, the ground is eneas to the slide, the ground is east, the driving being continued by the side of the lode, the ground is leavy and wet; there is an increase of water in the breast of the slide, the ground is east, the driving being continued by

out, driving north-east of the slide, the ground is elvan of good description—P.S. The lode in the 140 fm. level has not been seen east of the slide since the crush took place.
FRANK MILLS.—J. P. Nicholls, J. Cornish, F. Cornish, March 27: The east lode, in the 145 north, is 6 ft. wide, consisting of quartz, white iron, and capels, interspersed with branches of mundic, blende, and lead ore, and yielding of the latter a little saving work. We have a white elvan at the west side, and accompanying the lode, of a very congenial description, and we have no doubt the lode will soon improve in value. In the cross-cut driving west, at the 130 north, on the east lode, we have not mut with any more lode or branches, but the ground is rather more favourable for progress. The west lode, in the 130 north, is at present small and poor, being in disordered ground. The two stopes in the back of this level are producing 1 ton and \(^3\) ton of lead per fm. respectively. In the cross-cut driving east from the 116 north, on the west lode, we have very stiff, wet, and troublesome ground, and we continue to pass through more parts of the lode, consisting of white iron, with a little lead ore, but not to value as yet. The two stopes in the back of this level are each yielding \(^3\) ton of lead ore per fm. The 100 north, on the west lode, has been resumed; It is yielding saving work, and looking well for improvement. The three stopes in the back of this level are each yielding \(^3\) ton of lead ore per fathom. The tribute department is looking just the same as for some time past, with the exception of one of our old pitches in the back of the 46, which has improved, and the men earning high wages. All other parts of the mine are without any change to notice.

FIRSDON—Capt. Collins. March 28: In the stope in the bottom of the 21

and the men earning high wages. All other parts of the mine are without any change to notice.

FURSDON.—Capt. Collins, March 28: In the stope in the bottom of the 21 west the north part of the lode is not looking so well as it did last week; the lode is large, and carrying ore. I have no doubt there are many tons of ore between the 21 and the 31. We have put the stopemen to drive west on the lode at the 31. The rise in the back of the 21 east is without change. The end at the 11 east is still letting out much water, and the ground is very kindly for ore. The stope in the back of the 11 east has been poor since last week, but is improved to-day. I believe it will be better to put up a rise in the highest place in the stopes, as high as the bottom of the adit, and to drive the adit end to cut the lode, which I believe is south of the present level, and, probably, this will drain all the water which we have at the 11, and likely we may cut the top of the same shoot of ore which we have a the 11, and likely we may cut the top of the for this month.

his month. WTON COPPER.—G. Rowe, G. Rowe, jun., March 23: The new engine

all the water which we have been stoping on for several months past. We same shoot of ore which we have been stoping on for several months past. We see that the stop of the seven stoping on for several months past. We see that the seven several s

we intend to urge on towards this cross-course, and open up a communication with the 70 end, from Sieggan's, which will thoroughly ventilate the mine, and we think open a valuable run of ore ground.

— Telegram.—March 28: The lode in Sieggan's shaft now worth \$51. per in.

— Telegram.—March 28: The lode in Sieggan's shaft now worth 351, per fa. for length of shaft.

GREAT NORTH LAXEY.—R. Rowe, March 26: The engine-shaft is now 4½ fathoms below the 84; the lode is about 2 feet wide, hard, and compose mainly of quartz, with at present only a small quantity of lead. The lode is the 84 north has suddenly come to a nip, and in consequence is not at this moment so good for lead, but we expect it will open out and improve very shortly, Other places, including the stopes, continue much as reported at its recent general meeting.

GREAT SOUTH CHIVERTON.—J. Nancarrow, J. George, March 25: The lode at Gifford's engine-shaft looks exceedingly well, has much less underlied that any time since it came into the shaft, and has all the appearance of soon becoming productive. The water in the 30 cross-cut north is increasing, which is evidently draining the 20 fathom level. There is no important alteration in the 20 fm, level east.

ornardity draining the 20 fathom level. There is no important afteration in the 20 fm. level cast.

GREAT SOUTH TOLGUS.—John Daw, March 27: During the past weeky silltile progress has been made in forking the water, owing to a breakage in silltile progress has been made in forking the water, owing to a breakage in single-bob, and one of the boilers sprung a leak; also in the past two or three weeks we have bad excessive floods of rain, which have very much increased water, but this, I hope, will fall back again soon. We shall sample 28 tons of the course over today.

angle-bob, and one of the bollers sprung a leak; also in the past two or the weeks we have had excessive floods of rain, which have very much increased the water, but this, I hope, will fall back again soon. We shall sample 28 tong dopper or to day.

GREAT WHEAL BADDERN.—Richard Pryor, Henry Tregoning, March 2: In handing you our report to the committee, we beg to state that the 75 crossition, and the state of the committee, we beg to state that the 75 crossition, and driving by six men, at 161, per fathom; this end has been in the Badder elvan course all the distance, which has proved at this point to be upwarded of 10 fathoms wider than at any other part cut through in the western mine. The water has been, and is still, increasing daily from the present end. The water has been, and is still, increasing daily from the present end. The water has been, and is still, increasing daily from the present end. The water has been, and is still, increasing daily from the present end. The water has been, and is still, increasing daily from the present end. The cross-heads, or veins, with mundie. We have for some few days past intersected spots of killas occasionally, which indicates strongly that we are getting threat the elvan and the tin lode, which has been decidedly found under the elvan the elvan and the tin lode, which has been decidedly found under the elvan the elvan the same direction, and prove good, opening up a permanel and anting property. The 75, west of the cross-cut, on the Baddern lead tod, is now in about 17 fathoms towards the old mine, and about 3 fathoms in the western hill; driving by six men, at 51, per fathom, in a kindly lode, 2 feet wide, one posed of sulphur, mundie, prian, and spots of silver-lead. The ground has undergone a favourable change since, the elvan being, from a hard to a deep posed nature, of a very congenial character for silver-lead, and we believe the end of this month's working will tell us a great tale on two imports points of operation. The engine, pitwork, &c., are going on

atili suspended, owing to the stormy weather. This is the worst day we have had all the winter.

HINGSTON DOWN CONSOLS.—Thos. Richards, March 27: The 140, east HINGSTON DOWN CONSOLS.—Thos. Richards, March 27: The 140, east Bailey's engine-shaft, is worth 25t. per fm. All other points of operation who out any material change.

LOVELL CONSOLS.—Wm. Chappell, March 28: In the 12 end west then

out any material change.

LOVELL CONSOLS.—Wm. Chappell, March 28: In the 12 end west then every appearance of an early improvement, as we are now getting out of the fluence of the great cross-course, to the west of which, in the back and botto of the adit level, it is all taken away for tin; the lode is 3 ft. wide, and letin out a great quantity of water, which we consider a good omen for a course tin a little ahead. We are making good progress in driving the cross-cut tent to cut Trevenen north lode. I will forward you an estimate for the erection water-stamps in the course of next week. All our machinery and pitwork good working order, consuming 12 tons of coal per month, and keeping the was with ease. The engine is calculated to put the mine 50 fms. deep. As soons the stamps are erected we shall make regular returns of till.

MARKE VALLEY.—J. Truscott, March 26: The ground in Sallsbury's shall sinking below the 124, is without alteration.—Marke's Lode: The 112 east producing 2 tons of ore. The 112 west is producing 3 tons of ore. In the 190s are eross-cutting from the eastern end, on Marke's, towards Rosedown, whe the ground is favourable.—Rosedown Lode: The 90 west is worth 1½ tong fathom. The 60 west is worth 5 tons per fm. The 50 west is worth 4 tons per fm. MNERA UNION.—W. T. Harris, March 28: Douglas's Shaft: The lode: the 40 yard level north is 2 feet wide, easy for progress, and yielding a little lead-Brabner's Shaft: The ground in the 80 yard level north is 2 feet wide, easy for progress, and yielding a little lead-Brabner's Shaft: The ground in the 50 yard level cross-cut, towards the red wis favourable for progress. The ground in the 60 yard level eross-cut consist of chert, and containing a little lead.—Williams's Shaft: The lode in the 40 yard level north is 2 feet wide, easy for progress, and yielding a little lead-Brabner's Shaft: The ground in the 60 yard level cross-cut consist of chert, and containing a little lead.—Williams's Shaft: The lode in the 60 yard level cross-cut consist of chert,

have been taking this off this week. I now think there is a good dealers have been taking this off the limestone.

NEW CLIFFORD.—J. Michell, March 26: The shaftmen are making very progress in sinking, and I believe by the end of next month we shall be down the 50, when I intend cross-cutting to intersect Gooley's and Holland's The elvan that has been broken in the shaft lately contains in the head or sions of the rock some very rich grey copper ore. When we consider the genial character of the strata, and the occurrence of so much mineral if which decidedly indicate deposits of ore in the locality, we can but allow a success is certain. The engine and pitwork are in good condition, and we

ing very well.

NEW TRELAWNY.—E. H. Dingle, March 26: The lode in the 30 east is nuite so large as when last reported on, but so far as taken down has opene "NEW TRELAWNY.—E. H. Dingle, March 26: The lode in the 20 east quite so large as when last reported on, but so far as taken down has open tribute ground, and I have every reason to believe that the lode in this en has further improved slace last reported on, being from 2½ to 3 feet wid will now ylold 7 tons of mundic, intermixed with copper ore, to the father is worth 14. per fathoun, and in the bottom of the level, for 3 feet high, iducing large rocks of black, spotted with rich yellow, copper ore, sam which I have sent to the office. I am still of opinion that only a little depth is required to make this a dividend-paying mine. We have drive and west of shaft about 15 fathoms, and thus far have opened out ground will be taken away at a fair profit. The back of each level is set on tribut the back of the 30 east I have set a pitch to four men, from this time to Jat4s, 6d, per ton for mundic, the takers to dress the mundic at their or pense, and pay all cost. I have also set a pitch in the back of the 30 west, twen, on the same conditions as the other pitch, at 4s. 3d, per ton, and all well, shall now sell from 100 to 150 tons of mundic, &c. per month, the profit which will, I hope, meet a great part of the labour cost. I shall also a bale to select some copper ore for the market. The engine and pitwork con 1 good order.

NEW WHEAL LOVELL —Jaz. Prikke March 28: The lode in the sea

well, shall now sell from 100 to 150 tons of mundle, &c., per month, the prese of which will, I hope, meet a great part of the labour cost. I shall also now able to select some copper ore for the market. The engine and pitwork conting now order.

NEW WHEAL LOVELL.—Jas. Priske, March 28: The lode in the engishaft, sinking below the 53 fm. level, is 3 feet wide, worth 151, per fathon it length of shaft (12 feet), and from the present appearance of the bottom of shaft we may expect a greater improvement daily. The lode in the 53 fm.se east is 18 inches wide, worth 71. per fathom. The lode in the 42 fm. level sis 2 feet wide, producing tin, and looking very kindly for a further impresent ment shortly. The lode in the 42 fm. level east is 6 feet wide, producing stin, and looking very kindly for a further impresent work. Altogether we are much improved.

NEW WHEAL TOWAN.—R. Pryor, March 27: The lode in the adit led driving west, has undergone a very favourable change, and continues its and will produce more ore than when last reported on.

NORTH DOWNS.—F. Pryor, J. Grenfell, March 27: Bennetts's Shaft: In 70, east of this shaft, on the main lode, and the 40 fm. level cross-cut soulicent the south lode, are progressing satisfactorily, but there is no change to min either since last week. The 60, west of King's shaft, on the main lode, letting out an increase of water; the lode is very regular, and producing worf ore. The 50 west, on this lode, is looking very promising, and worth 1/2 of ore per fm; this end is quite dry, and from the quantity of water issue from the level below we have reason to believe there is a good lode in admit of this (the 69), which water pushing on as fast as possible. The stope in back of this level, on the south part of the lode, is worth 77, per fm. In the east of this sevel, on the south part of the lode, which made a good of ore ground east of the south part of the lode, which made a good in the south lode, when we get of the cross-course. No other change to notice.

OKEL TOR.—J. Rodda, M

h 23: cross-noms, idem rds of

ground here being now open for the tributers the tutwork men are removed to the 130 east, on same lode, to prove the ground in that direction. The lode in the 130 east, on same lode, to prove the ground in that direction. The lode in the 130 east, on same lode, to prove the ground in that direction. The lode in the 130 east, on the large lode in the bottom of the 110 is south of this end; the cipal part of the large lode in the loot oftom of the 110 is south of this end; proventing the sinking with much adbottom of Cobbler's shaft, the lode in the 130 country we have set the men to rise through to Cobbler's: The lode in the 130 kmmer's) and the ground to the back of the 120 being cheap and casy for rising, vantage, and the ground to the back of the 120 being cheap and casy for rising, vantage, and the ground to the lot, east we have set the men to rise through to Cobbler's: The lode in the 100 kmmer's in 6 the lot on the 101, per fm. —Cobbler's: The lode (Martin's and of Bragg's cross-cond. Is worth 101, per fm. —The lode in the 110 Skimmer's) in 6 the lot on the 101, per fm. —In the 110 east end, not yet through west end is one. In the 96 cross-cut north nothing of importance intersected the cross-cone. In the 96 cross-cut north nothing of importance intersected the cross-cone and the port. The 90 west, on north lode, is worth 71, per fm. —The blamuth since last look. The 90 west, on north lode, is worth 72, per fm. —The blamuth lobe lose generally maintain their improved productiveness reported within but passed to the seem the 110 km 20 km 20

PHINE of well, worth sol, per fathom. In the 52 west the look els ft, wide, worth 30, per fathom, in the 64 west the look of east the look is 18 ft, wide, worth 30, per fathom. We will solve the look of east the look is 18 ft, wide, worth 30, per fathom. We will admine the worth 30, per fathom. The wing is father than 18 ft. and 18 ft. and

slow, Wee

a patien of civan in the end, and a branch of spar, and we are of common we are getting near a lode.

TREVENEN AND TREMENHEERE.—J. Medlyn, C. George, March 27: Trevenen shaft yields saving of low quality. The 197 end is worth 61, per fathom; the stope in this back is worth 62, per fathom. The 172 end is fair and congenial for producing tin, and will be within 6 fathoms of the line of the winze above by setting-day. The 162 will be holed to the winze to-morrow. The 150 end shows indication of improvement. We have cut the whole ground which which accompanies the shoot of tin in the 125. No. 1 stope in this level is worth 81, per fathom; No. 2, 84.; and No. 3, 61, per fathom. The three stopes

in the 125 are worth on an average 101, per fathom. This tin dips east fast, and we believe we shall cut it in the 150 end in a short time. We have 13 tributers,

in the 125 are worth on an average 10f, per fathom. This tin dips east fast, and we believe we shall cut it in the 130 end in a short time. We have 13 tributers, inaking fair wages at 10s. 40. 41. 11f.

"HEWEATHA.—T. Foote, J. Scott have 1 as short time. We have 13 tributers, in a tributers in the 10st one of the 10s

is a feet wide, composed of capet, quartze, anuncance or mundic, and yielding it ton of ore per fathom—a very promising hole.

Iton of ore per fathom—a very promising hole.

WEST WHEAL KITTY.—W. Vivlan, March 27: In the adit end, west of the western shat, the lode is from 0 to 7 ft. wide, worth about 15i. per fathom. On western shat, the lode is from 0 to 7 ft. wide, worth about 15i. per fathom. On the western shat, the lode is from 0 to 7 ft. wide, worth about 15i. per fathom. On the other parts of the mine there is no change since has tweek.

WHEAL BULLER.—James Inch, March 27: Stevens's Shaft: The 22 east is worth 15i, per fathom. The 92 west is producing low-quality work. There are about 5 ft. shows more tog tunder where the lode in the 80 was worth 30i, per athoms more tog tunder where the lode in the 80 was worth 30i, per athoms more tog tunder where the lode in the 80 was worth 30i, per fathom. The orders were shown to 15i. per fathom. The 15i. per produce. Two other the 15i. per fathom. The 15i. per fath. Per fathom. The 15i. per fath. Per fathom. The 15i. per fathom. The 15i. per fath. Per fathom. The 15i. per fath.

the ventilation.-Belfry Shaft: The lode in the 60, west of this shaft, has much roved, and is now worth 8t, per fm., with prospects of further improvement, south lode in the 45, cast of this shaft, produces good stones of tin, a very ly lode, ground favourable for driving. We expect to commence working ground on the main lode, east of old sump, on tribute, next week. No other uge to report.

the ground on the main ton, carry the specific state of the hange to report.

WHEAL UNY.—S. Coade, M. Rogers, March 23: There is a good improvement in the lode in the 130, west of incline shaft; the lode, or part carrying, which is  $4\frac{1}{2}$ t, wide, is worth 151, per fathom. The other parts of the mine are of the same value as reported on last week.

which is 4/2ft, wide, is worth 13/, per fathom. The other parts of the mine are of the same value as reported on last week.

FOREIGN MINES.

CAPE COPPER.—Feb. 6: A further detachment of fifty convicts had been sent to Namaqualand. The boiler at the reduction works had been completed, and the operations satisfactorily resumed a few days before the dispatch of the advices. No discoveries had taken place at Nababeep and Koperbore of the dispatch of the advices. No discoveries had taken place at Nababeep and Koperbore the dispatch of the advices. No discoveries had taken place at Nababeep and Koperbore the trials. At Ookley Min to material units were about to be removed to other trials. At Ookley Min to material units were about to be removed to other trials. At Ookley Min to material units of the place of the month of January was 430 tons. Although the ordinary carrying season had not yet commenced, lostons of ore had been dispatched from the mineral parts and the present mail steamer brings 10 tons, and during the past month the arrifections of the present mail steamer brings 10 tons, and during the past month the arrifections. The present mail steamer brings 10 tons, and during the past month the arrifections of the present mail steamer brings 10 tons, and during the past month the arrifections. The present mail steamer brings 10 tons, and during the past month the arrifection of the past of the present mail steamer brings 10 tons, and during the past month of shaft, when the lode will report the past work of lead-a very promising-looking lode. The water has very much increased in the stand of a state of the past present week. Which I consider is a good indication. The ground is favourable for have placed the men south of shaft, where the lode will yield 5 certs, of lead per fathom. But Hittle has been done in the shaft since my last present when the past present week with the shaft since my last present with the shaft since and will be a shaft past present the past month of the past past past past past past pas

PETROLEUM IN ITALY.—It is gratifying to learn that the whole of the capital necessary to develope the petroleum deposits discovered by Mr. Edward St. John Fairman, and to which reference was or the capital necessary to develope the petroleum deposits discovered by Mr. Edward St. John Fairman, and to which reference was made in the Mining Journal some months since, has been raised in Italy; and evidence is now being given that the Italians are willing to rely upon their own resources for the extension of their industrial undertakings. It is stated that the Minister of Agriculture has decided to refuse an English company the right to explore some petroleum deposits lately of the oil is concerned, they can vie with those of America. The refusal, it appears is actuated by the desire and duty, which the Government feel bound to respond to, to give the preference to native enterprise. In consideration of Mr. Fairman's studies and researches having been crowned with the fullest success he has had the honour of an audience of his Majesty Victor Emmanuel, at which, after making numerous equipiries upon the subject, the king determined to take the enterprise under his especial protection, and recommend it to his Government, besides conferring upon Mr. Fairman the order of St. Maurice and Lazarus, and authorising him to call the company which he has formed after himself—the Victor Emmanuel Petroleum Company. A letter from Florence, referring to the decision with regard to the Pescara deposits, remarks that there is no contesting the fact that capital dose exist in Italy, and the Italians are becoming persuaded of the importance of the mineral wealth of their country, and are now determined to reap the benefits themselves, instead of allowing foreigners to profit by what by nature ought properly to belong to the Italians. The example thus set might be advantageously followed in England, which, like Italy, has an abundance of mineral wealth, which would remunerate English capitalists far better, owing to the greater facilities for personal supervision, than any foreign enterprise that could be found.

MINERAL WEALTH OF THE PACIFIC.—Wherever silver mines have been found there spring up great cities, wonderful improvements, and all the evidences of opulence. Gigantic fortunes have rewarded the early discoverers, and for generations their decendants have reaped the never-failing harvest of annual returns. The discoveries of Nevada (which were made only in the autumn of 1859) equal the most famous and fabulous of sliver mines. Potosl owes its prosperity to no richer deposits than underlie the towns of Virginia, Anatin, Silver City, Gold Hill, or Star City, while surrounding discoveries only prove a common fact in silver mining and their inexhaustible extent. One great fact in the history of silver mining should not be lost sight 64, and that is this—where-ever, in any part of the world, silver mines have been worked they are worked still, unless arrested for some explainable cause. The lack of machinery, the existence of war, and the incursions of Indians have in Mexico familiarised our minds with the idea of abandooad mines; but they have all been abandoned for some other cause than that they are exhausted. We know of no silver mining region in the world which has been worked out. The mines in Mexico, originally to worked by the native Aztecs, before the Spanish Conquest, are worked still. The mines of Andes have given forth their wealth for more than three centuries: and those of old Spain have been worked from the middle ages, and are in working condition now. In Hungary, the same mines worked by the Romans before the birth of Christ-till yield their steady increase. The silver mines of Freiburg, in Saxony, worked from the lith century, know no diminution. In Bohemia, the Tyrol, Norway, and Sweden, in the Ural and Atlas mountains, and, indeed, wherever the discoveries of silver have been made, we believe, without exception, the mines continue to be worked up to the present day, and are generally more productive now than at any time in their past history. There are, of course, exceptional instances. There have MINERAL WEALTH OF THE PACIFIC.—Wherever silver mines have

# vantages of cheap supplies, great experience, vast public improvements, and strong Governments. With these we may make some comparison, and knowing our native wealth we can look forward with some calculation as to the future. There are yet, as ever, great mines of gold, silver, and copper in Mexico and South America, which pour floods of treasure upon the world, and build up elegant cities, with hundreds and thousands of inhabitants; but these countries have not reached to greatness, or at least do not stand in greatness to-day, because they came before their time. Their country was difficult of access, their Governments oppressive, and the people were possessed of no clements of advancement. New Nevada lies upon the broad bosom of America, and the poet has said "She leaves her white breast nearest the sky." This beautiful simile is as true as it is poetic. No founts of greater wealth can be than are the snowy hills of the silver States. The Mining Market; Prices of Metals, Gres, &c.

METAL MARKET-LONDON, MARCH 29, 1867.

| have not reached to greatness, or at least do not stand in greatness to-day, be- | COPPER. # 8. d. # 8. d.              | IRON.                      | Per ton  | ı. |
|--|--------------------------------------|----------------------------|----------|----|
| caree they came before their time. Their country was difficult of access, their  | Best selectedp. ton 82 0 0- 83 0 0   | Bars Welsh, in London 6 1  | 0 0- 6   | 1  |
| Covernments oppressive and the people were possessed of no clements of ad-       | Tough cake and tile 81 0 0- 82 0 0   | Ditto, to arrive 6 1       |          |    |
| vancement New Nevada lies upon the broad bosom of America, and the poet has      | Silentiffing & shorts. St U U-       | Nail rods 7                |          |    |
| said "She leaves her white breast nearest the sky." This beautiful simile is as  | Dotto                                | " Staffd. in London 7 1    |          |    |
| true as it is poetic. No founts of greater wealth can be than are the snowy      | Bottoms 30 0 0-                      | Bars ditto 7 1             | 0 0-9    | î  |
| hills of the silver States.  | Old (Exchange) 72 0 0                |                            | 2 6- 9   |    |
| mins of the sirver states.   | Burra Burra 83 10 0- 84 0 0          | Sheets, single 9 1         |          |    |
| THE TIN TRADE The Dutch sale has passed off most satisfac-                       | Wireper lb. 0 1 01/2                 | Pig No. 1, in Wales 4      | 5 0-4    | 1  |
| THE TIN TRADE.—THE DATE AND THE PROPERTY OF                                      | Tubes ,, 0 1 0                       | Refined metal, ditto 4     | 0 0- 5   | П  |
| torily, the whole 69,400 slabs having realised an average price of               | BRASS. Per lb.                       | Bars, common ditto., 5 1   |          |    |
| 54 fls. per 50 kilos., which is equal to about 941. 10s. per ton, free in        | Ob                                   | Do. mrch. Tyneor Tees 6 1  | 0 0-     |    |
| warehouse here. As this price is an advance of more than 3 fls.                  | Sheetsper lb. 10d                    | Do., railway, in Wales 5 1 | 5 0- 6   |    |
| upon the closing quotation to end of February, it may fairly be an-              | Wire ,, 81/6d                        | Do., Swed. in London. 10   | 5 0-10   | 1  |
| upon the closing quotation to end of February, it may larry be an                | Tubes " 11d.~ —                      | To arrive10 1              | 0 0-     | -  |
| ticipated that a gradual and permanent improvement has now set                   | Yellow Metal Sheath.p. lb. 71/4d     | Pig. No. 1, in Clyde 2 1   | 4 0- 3   |    |
| in, and as tin mine adventurers may calculate that, under the most               | Sheets 7 d                           | Do. f.o.b. Tyne or Tees 2  | 9 6-     | -  |
| adverse circumstances, present prices will be the lowest paid during             | SPELTER. Per ton.                    | Do. Nos. 3,4,f.o.b.do. 2   | 6 6- 2   |    |
| the next six months, it must be obvious that tin mines now paying                |                                      | Railway chairs 5 1         | 0 0- 5   | 1  |
| the next six months, it must be obvious that the mines now paying                |                                      | spikes11                   | 0 0-12   |    |
| cost will prove a safe investment, owing to the excellent prospects              | " to arrive 22 0 0                   | Indian Charcoal Pigs,      |          |    |
| of a speedy and considerable advance, without the usual risk of a                | ZINC.                                | in London p. ton 7         | 0 0- 7   | 1  |
| decline. The stock of tin in the various markets is considerably                 | In sheets 28 0 0                     | STEEL.                     | Per te   |    |
| smaller than at the corresponding period of last year, and we have               | TIN.                                 | Swed., in kegs(rolled)14   | -        | -  |
| a period of prosperity instead of panic to look forward to.                      | English blocks 92 0 0                | (hammered)16               |          |    |
| a period of prosperity instead of panie to look forward to.                      | Do., bars (in barrels) 93 0 0        | Ditto, in faggots16        |          |    |
| The same time the same time  | Do., refined 95 0 0                  | English, spring19          | 0 0 99   | ı  |
| NORTH WHEAL CHIVERTON SILVER-LEAD MINE.—The operations                           | Banca 94 10 0                        |                            |          |    |
| here are going on with great vigour in developing the mine, in sink-             | Straits £88 10 0- 89 0 0             | QUICKSILVER (p. bottle) 6  | 17 0-    | -  |
| ing shafts, driving levels, cross-cuts, &c. The water has been got               |                                      | LEAD.                      | Per ton. |    |
| out to the bottom of the mine, the 80 fathom level, and rocks of                 | TIN-PLATES.* Per box.                | English Pig, com19 1       | 0 0-     | _  |
| 21 the bottom of the mine, the contains the level, and the set of                | IC Charcoal, 1st qua. 1 10 0- 1 12 0 | Ditto, LB                  |          |    |
| rich silver-lead ore have been discovered in this level, almost equal            | IX Ditto, 1st quality 1 16 0- 1 18 0 | Ditto, WB22                |          |    |
| in quality or richness to that of West Chiverton at a similar depth.             | IC Ditto, 2d quality., 1 6 0         | Ditto, ordinary softt 20   |          |    |
|  | Tay Pales - 0.1 Main - 1 and         |                            |          |    |

for some 50 to 60 fathoms in length, will be laid open, and from this part of the mine alone good returns of silver-lead ore and blende ores will be made. From the testimony of the managers of West Chiverton—Capt. Rowe, of the Great Laxey Mines, Capt. Johns, of Wheal Trelawny and West Caradon Mines, Captain Vivian, of North Wheal Crofty, Capt. Henry James, Capt. Rodgers, late agent of the Old Tamar Mines, and of lead mines in Ireland and Wales, as well as of the agent, Captain Hancock, now resident on the mine, and several other practical mine managers—all concur in the decided opinion that North Wheal Chiverton, with a proper development, in a comparatively short period, cannot fail in opening up another great prize in this district. Mr. George Noakes (the managing director of Great Wheal Vor) is the London manager of North Wheal Chiverton, which is a sufficient guarantee that this mine will be con-A Derbyshire quotation: not generally known in the London market.

REMARKS.—We regret that we are not able to report a more favourable condition of the Metal Market, which still continues in a state of considerable depression, the amount of actual business transacted being very small; indeed, if possible, during the past week there has been a greater amount of inaction than has been before experienced. Nevertheless, we still cherish the hope that matters in the metal trade will mend ere long, and that we shall see a more satisfactory business arising during the spring. The rumours which are afloat, that it is not very improbable the peace of Europe may be broken again this year are by no means reassuring, and it is earnestly to be hoped that they may not prove true, as war is at all times a great hindrance to commercial operations generally, and would be almost sure, if undertaken at the present time, and especially if it should lead to a general European war, very seriously to retard the hoped-for improvement, not only in the metal trade, but in all kinds of business, as the depression has not been by any means confined to the metal trade, but has been almost universal in all trades and business throughout the country. Although we trust, therefore, that peace may still continue to rest upon the nations of Europe, and that the horrors of war may not, at least for some time, again overgrand the Continuent vet we have much fear that the Europe, and that the horrors of war may not, at least for some time again overspread the Continent, yet we have much fear that the signs of the times seem to tend very much in the direction of war, and that it will be only by the wisdom of Governments, and the suppression of irritated and jealous feelings on the part of Rulers, that it will be prevented

COPPER.—No improvement whatever has occurred in this metal

COPPER.—No improvement whatever has occurred in this metal during the week; sales are exceedingly few, and none of any importance have taken place. It is almost impossible to mention present prices with any degree of accuracy.

IRON.—In Staffordshire more continental orders have been received during the past week, and the East Indian demand continues good. Home merchants, however, as yet refrain from giving out specifications. Parties from the United States, who have recently visited the district sees h more hopefully of the trade with that marvisited the district, speak more hopefully of the trade with that mar-ket, which is at present suffering from the reaction consequent on large exportations in anticipation of higher duties. No doubt the restoration of a settled Government, and of confidence in the Southern restoration of a settled Government, and of confidence in the Southern States, would lead to very extensive requirements for iron. The Preliminary Meeting of the South Staffordshire Ironmasters was held at Birmingham, on Thursday. There was a tolerably full attendance, and, after a brief discussion, a resolution was unanimously passed to adhere to the old scale of prices for all descriptions of manufactured iron—that is, 71. 10s. for bars, and other kinds in proportion. No other resolution was before the meeting, but it is doubtful whether were then helf, adderen of these present are able to obtain the No other resolution was before the meeting, but it is doubtful whether more than half-a-dozen of those present are able to obtain the trade prices. In Welsh the trade shows no sign of substantial improvement, and the usual quietness characterises operations at the works. There are some orders for rails on the books, and this branch of the trade is the only one that has anything like life in it, but its continuance depends, in a great measure, upon the turn matters will take as regards the American demand. The difficulties of the railtake as regards the American demand. The difficulties of the randway companies seriously affect the demand from home consumers, and prevent many specifications from being given out. Sellers of pig-iron report no change in business, and the current quotations are in many instances unremunerative. In Swedish iron the enquiry is only limited. In Scotch pig-iron the market still continues depressed price are, however, a trifle better. At one time the price went up to 51s. 9d. cash, but has since declined to 51s. 74d. cash.

LEAD.—There is no appearance of activity; transactions are only limited, but prices still remain firm at the quotations.

TIN.—The market for English remains firm at the recent advance. TIN.—The market for English remains him at the recent advance. Very little business has been done in foreign, pending the Dutch Trading Company's sale of Banca in Holland. This took place, as announced, on Thursday, and comprised 69,400 slabs Banca, and 600 slabs Billiton; total, 70,000 slabs, all which sold at 54 fls., equal to about 941, 10s. delivered here. Since the result of the sale was known here, no transactions appear to have taken place in this market.

SPELTER has remained very quiet during the week, and no sales of care consequence have taken place. The price on the spot however.

or scheme and seemand very quee uning the week, and no saleson ny consequence have taken place. The price on the spot, however, till continues firm, at 21t. 15s.

TIN-PLATES.—There is a fair export enquiry, and a good amount fourings doing. Makers generally are well placed for orders.

STEEL and QUICKSILVER require no special comment.

of husiness doing.

The settlement of the fortnightly account in the MINING SHARE MARKET took place on Friday, and was again very heavy in Prince of Wales and a few other mines; but business during the week though active, and with more than an average amount doing, has been rather more fluctuating in regard to prices. The standard for been rather more fluctuating in regard to prices. The standard for copper ore is down about 3 this week. In our last an error occurred in relation to the standard, which was then rather better instead of worse. The sale of Dutch tin has gone off well, and at a price to lead us to hope for another rise in Cornish tin ere long. West Chiverton shares have risen to 68, 70, but the public, at least, seem to be ignorant of any change at the mine. Chiverton Moors shares suddenly to 9, buyers, and then almost as suddenly dropped to rose suddenly to 3, buyers, and then almost as suddenly dropped to 6, leaving off 5\(\frac{1}{2}\), 6\(\frac{1}{2}\). In the absence of all information from this mine, as well as West Chiverton, it is impossible to account for these fluctuations. South Caradon, 300 to 320; at the meeting, held on Tuesday, a dividend of 6\(\textit{L}\) per share (3072\(\textit{L}\)) was declared, leaving in hand 2954\(\textit{L}\)6\(\textit{L}\)6\(\textit{L}\)11s.7d. The report of this, the richest copper mine in Cornwall, is contained in one line—"Our prospects are still very good, with every probability of a continuance." This is the usual two-monthly report, and all the shareholders ever get from the agents, which may, perhaps, account for the steady price of the shares. In mines that are made subject for the steady price of the shares. In mines that are made subject to market operations, the agent is expected to send a detailed report twice a week, while about 20 other agents report twice a week also, according to their "lights." Some years ago the writer was at South Caradon, when it was paying 15,000% a year in dividends, and there was not an end in the mine to value, the nature of the lodes being rich, but very fluctuating in value, and if all these changes, as they occurred, had been telegraphed or reported to London, a fine property

would have been knocked to pieces; for every trifling and temporary change in an end, or any productive part of a market mine, is made the means of depreciating the shares, though, from the nature of lodes generally, it is very seldom they have any lasting effect on the value of the mines. South Caradon has paid over 200,000. in displants of the decay of the shares to 300,000. In the case, they were offered and refused in London at 51.

Prince of Wales shares rose to 58s. buyers, and were very firm till just before settling-day, when prices gave way a little, owing to sales of shares bought for speculation for the account, but they rallied again to 56s., 58s. and then left off at 55s. 6d., 57s. The 55 east is worth 20 ner fathom: the 55 west, 50l. per fathom; the 45 east, 30l. per fine

shares bought for speculation for the account, but they failled againto 56s., 58s. and then left off at 55s. 6d., 57s. The 55 east is worth 20 per fathom; the 55 west, 50l. per fathom; the 45 west, 30l. per fathom; the stope, 20l. per fathom; the sampling is 153 tons of rich ore, leaving 30 ton more broken in the mine, and in another month 100 tons more will be sampled. Chontales Gold, 2½ to 3; Clifford Amalgamated, 6½ for 7; Cook's Kitchen, 11 to 12; Drake Walls, 10s. to 15s.; East Carn, don, 5 to 5½; East Carn Brea, 2½ to 2½; East Lovell, 10 to 11; Great North Downs, 3½ to 4; Great North Laxey, 25s. to 30s.; Great & tallack, not so firm, at 3 to 3½; Great Wheal Vor, 19½ to 20; Great Laxey, 17 to 18; the lode in the main shaft, below the 22 is worth 50l. per fathom; at Dumbell's shaft, which is down 10 fm below the 110, the lode is worth 120l. per fathom; the south sums is worth 140l. per fathom; the other points in operation at this min are worth in the aggregate 1015l. per fathom. North Wheal Croft, 5½ to 5½; North Treskerby shares, after reaching 2½, leave off 1½ to 5½; Prosper United, 3½ to 3½; Rosewall Hill and Ransom, 40s. 14 ds. East Wheal Grenville shares have been firm, and advanced to 2½, 3; the mine continues to improve, and the ore appears to be 24; Prosper United, 34 to 34; Rosewall Hill and Ransom, 40s, s. 45s. East Wheal Greuville shares have been firm, and advanced to 24, 3; the mine continues to improve, and the ore appears to be coming into the shaft. South Condurrow, 17s. to 19s.; Tincoft 15 to 16; West Caradon, 9 to 9½; Wheal Basset, 65 to 67½; Wheal Crebor, 9s. to 11s.; Wheal Seton, 104 to 106; Wheal Uny, 1½ to 1½ West Seton, 135 to 140. Marke Valley, 4½ to 4½; on Rosedown loc the ends are worth 13½ tons of copper ore per fathom; Marki lode is worth 5 tons per fathom. East Basset, 18 to 20; at the messing held on Tuesday, the accounts showed a balance against the elementary of the tribute pitches for tin and copper are looking about the same as two months since. West Prince of Wales, 10s. to 12s. 6d. Wheil Buller, 24s. to 26s.; the mine is looking well, and the various point of operation are worth in the aggregate 137l. per fathom. At the meeting the accounts showed a balance against the company of 970l.3s. 5d., the loss on the two months being 283l.15s.5d.; a call 2l. per share was made. Since last meeting 300 fathoms of flat-rog have been erected, and extra costs incurred.

The market for Mines on the Stock Exchange during the week hat been, on the whole, active, with a healthier tone, tin mines being he especial request. Great Vor, after having risen to 21½, 22, close 19 20½, ex div.; North Crofty, 5½, 5½, East Grenville, 2½, 3½; Was Chiverton, in anticipation of cutting the lode in the 110, and som good buying for investment, have risen to 66, 69, closing firm; Heroboto, 32, 34; West Basset, ½, 1; Chiverton, 7, 7½; East Lovell, № 10½; Wheal Buller, 23, 25; Devon Consols, 380, 390, ex div.; Gree Laxey, 17, 17½; East Basset, 3½, 3½; Prince of Wales, 2½, 2½; East Caradon, 5½, 5½, in request; Great South Tolgus, ½, ½; West Candon, 9, 9½; East Basset, 20, 22. In Foreign Mines, St. John del Rej. Don Pedro, and Alamillos have been the chief features, being respectively 55 to 56, 3-16 to 5-16 prem. ex div., and ½ to 1½; Chontala ½, ¾ dis.; United Mexican, 2½, 3; Anglo-Brazilian, par, ½ prem.; Pæ Phillip, 11-16, 13-16; Panulcillo Copper, ½, ¼ dis.; Yudanamutan ¾, 1. North Wheal Chiverton, 4, 4½; in clearing up the 80 fm. lengood silver-lead has been discovered in the lode in the end. Chive ton Moor, 6, 6½; considerable fluctuations have taken place in the shares on various rumours, all of which would appear to be wither The market for Mines on the Stock Exchange during the week ha shares on various rumours, all of which would appear to be without foundation. Westminster, 5, 5\frac{1}{4}. Caldbeck Fells, \frac{1}{6}, \frac{1}{4}; it is all that the mine is looking well, and leaving a small profit; sham would appear to deserve attention.

During the quarter ending March 30 the quantity of copper ore, the produce of Cornwall and Devonshire, sold at the Cornish ticketing was 29,077 tons, which contained 1968 tons 6 cwts. of fine copper and realised 138,2951. 11s. 6d., being equal to an average of 41. 15s. 14 per ton of ore, and 70.5. 6d., per ton of copper in the ore. During the same period the British, colonial, and foreign ores sold at Swams amounted to 3914 tons, which contained 587 tons 2 cwts. of fineoper, and realised 43.817.5.5. 6d., being equal to an average of 11.3.8.9 per ton of ore, and 741.12s. 8d. per ton of copper in the ore. The average produce of the ore sold at the Cornwall ticketing was 64 per ton 11.3.8.1 to 11.3.8 depend and average produce of the ore sold at the comman account and control of the control spectively. The ore sold at the Cornish Ticketings was

|   | 151 13 £10,194    |
|---|-------------------|
| ,, 10 110 7 63/4 4 14 0 13 10 1513        |                   |
|   |                   |
|   | 101 18 7,093      |
| ., 17 113 15 61/2 4 14 0 14 41/2 . 3609 : | 236 12 16,995 1   |
| ,, 24 104 17 81/4 5 19 0 14 4 1873        | 155 12 11,161 1   |
| ,, 31 112 8 6% 4 7 0 13 91/2. 2961 :      | 187 8 12,919      |
| eb. 7 114 2 614 4 6 6 14 0 1715 1         | 106 14 7,456 1    |
| , 21 116 2 61/4 4 10 6 14 5 3167 1        |                   |
| ,, 28 108 15 71/4 5 9 0 14 51/4 . 2158 :  |                   |
| Iar. 7 107 18 71/4 5 7 6 14 3 2279 1      | 171 9 12,234 1    |
| 14 115 13 51/2 3 11 6 13 1 1424           | 77 17 5,086       |
| ,, 21 114 11 61/4 4 8 0 14 1 3928 5       |                   |
| ,, 28 103 19 7% 5 4 6 13 8 2246 1         |                   |
|   |                   |
| Total for the quarter29,0771              |                   |
| Quarter ending Dec., 186632,18321         |                   |
| Quarter ending Sept., 186633,76121        | 86 11 133,642     |
| Quarter ending June, 186634,46621         | 24 18 145,455 1   |
| Total for the year129,48784               | C4 18 . 553 366 1 |
| Showing a quarterly average of32,37221    |                   |
| Showing a quarterly average of 32,372 21  | 10 479 100,041 1  |
| Corresponding quarter, Mar., 186636,71122 | 20 1 167,493      |

| The or | re sold at the Swansea Ticketings was—   |
|--------|--|
| n. 22  | tandard. Prod. Price. Per unit. Tons. Fine cop. Amoust<br>697 16 9 . 15 . £11 4 6. 14s.11½d. 2064 . 309 12 . £23,164 19<br>96 15 6 . 15 . 11 3 3. 14 10½ . 1850 . 277 10 . 20,682 19 |
|        | Total for the quarter  |
|        | Total for the year   |

IRISH MINE SHARE MARKET.—The chief elements for disturbing attention to business are still at hand, although they have asst a widely different phase. Fenianism, which but a few days a widely different phase. Feminism, which out a few day-salarmed the timid, and disquieted the plotting man of business, still occupying much attention, the "news" columns of the Dublia and provincial journals being now mostly more than half filled will accounts of the state of their respective-localities, and of the arrest and examinations of the late disturbers of the peace. The accounts at now largely intermixed with reports of proceedings at meetings held throughout Ireland by the friends of Government and order, expression is warm terror their loyalty, and their singers abhorrance of the ing in warm terms their loyalty, and their sincere abhorrence of trecent events which, at the instigation of Americans, brought much misery to many a hitherto happy family. The Roman Cathe clergy availed themselves of the feast of St. Patrick unanimously denounce Fenianism in the strongest possible language, and the slip showed their reverence for their advice by an observance of sobrief absolutely unparalleled on any previous St. Patrick's day. From the districts which remained loyal and quiet, those in which ministers are the strong furnish beneat constituted. operations furnish honest occupation for the people are particularly shining forth for exemplary conduct, not a trace of Fenian tails having during the worst of times, or since, been discovered as affective the record of the state of the s ing the people of the respective localities, a fact that was constantly

# nature of the ground, and the light water-charge, the monthly cost will be about 300%. It is stated that several of the West Chiverton, Great Laxey, Great Wheal Vor, North Wheal Crofty, East Wheal Lovell, Wheal Trelawny, and other shareholders have already applied for a good interest in this mine, and there is every reason to believe that they will be well rewarded. MINING NOTABILIA.

rich silver-lead ore have been discovered in this level, almost equal in quality or richness to that of West Chiverton at a similar depth. In about a month Mew's shaft, which is sinking below the 70 fathom

level, will be communicated to this, the 80 fathom level, when good ventilation will be made, and a long run of valuable tribute gr for some 50 to 60 fathoms in length, will be laid open, and from

verton, which is a sufficient guarantee that this mine will be conducted in every way to the satisfaction of the shareholders. The important discovery of rich silver-lead ore made in the 80 fm. level, in

portant discovery of rich silver-lead ore made in the 80 fm. level, in a lode about 6 to 8 ft. wide, shows an unmistakable indication of an immense deposit of silver-lead ore, and when fully prosecuted in depth—only about 10 fathoms deeper—there is no question as to the great results which will follow. The mine is in 3000 shares, and the price only 4t. per share, as will be seen by the prospectus, in another column of this day's Journal. After paying the present proprietors for the property, and all liabilities up to the end of the present month (March) there will be 5000t. left to develope the mine, which is considered ample, with the returns of lead ores, to bring the mine into a profitable position. It is estimated that, in consequence of the easy nature of the ground, and the light water-charge, the monthly cost

nature of the ground, and the light water-charge, the monthly cos will be about 300l. It is stated that several of the West Chiverton

[EXTRACTS FROM OUR CORRESPONDENCE.]
GREAT WHEAL VOR.—The winzes below the 194 fathom level look

GREAT WHEAL VOB.—The winzes below the 194 fathom level look well, and the lode in the 204 is enlarged, and holds on well. The 174, west of Ivey's, has improved, and the mine generally looking well.

NORTH WHEAL CHIVERTON is opening out well, and bids fair to be another great prize in this district. The discovery of silver-lead ore in the bottom or 80 fm. level is of rich quality, and similar to that of West Chiverton.

WEST MARIA AND FORTESCUE.—The Capel Tor lode, in the 60, is cut into 10 ft., with mundic and stones of ore, and not to the hanging wall yet. If the cross-cut had cut the lode 15 fms. further east, under where the 50 crosscut intersected it (worth 10 tons per fathom), it is believed a fine course of ore would have been discovered. The day is not far distant for something good being found in this mine. The last sale, realising 1831, 14s., shows a better price obtained for the ore.

LAKE.—The sale of 50 tons (250%, with mundic), we believe, the costs for the two months.

CRELAKE.—The sale of 50 tons (250%, with mundic), we believe, meets the costs for the two months.

GUNNISLAKE (CLITTERS).—It is worthy of notice that the highest price paid for copper or at the sale on March 2i was for that of this mine—30 tons, at 131.4s. per ton. The amount, 618.1s., was for two months, against a cost of 400%. This mine is doing well for copper alone, and now the price of the strising the sales should be renewed, and large profits made.

TREWAYAS TIN AND COPPER MINE.—A company is now in course of formation to work this mineral ground, which is situated in the parish of Breage, Cornwall, and is held under Mr. J. J. Rogers, at 1-18th dues. In the old workings, between 1835 and 1815, the mine was very rich, producing nyawrds of 110,000% worth of ore. The main object in contemplation is to extend the adit on the Nimble Cutter copper lode, to cut the great this lode, from which good results are anticipated. The mine is divided into 256 shares, and at the meeting, held last week, a call of 5s. per share was made, payable to the manager and purser, Capt. J. R. Ridington, by that meeting appointed.

The Minera Mining Company (near Wrexham) have met with a vein producing fully 10 tons of lead ore per fm.; and also other places in the

The Mineral Mining Company (near vein producing fully 10 tons of lead ore per fin; and also other places in the works at present are yielding large quantities of lead, and have the appearance of doing so for some time to come.

CAPE CORNWALL MINE is still looking well for improvement.

CAPE CORNWALL MINE is still looking well for improvement. The lode in the 90 keeps its value for tin, while the 70 west is very kindly for copper, some capital stones of ore having been broken in the end. The development of this property is looked upon with much interest, it being considered that the prospects of the western ground are very encouraging.

NORTH WHEAL CROFTY.—Mr. A. E. Paull, the purser, being about to resign, in consequence of entering into another description of business, Mr. W. Watson, of Plymouth, who has had considerable experience in Cornish and Devon Mines, has been solicited to accept the office. The appointment will be made at the meeting, on Thursday.

GEOLOGICAL SOCIETY OF LONDON .- March 20: Prof. Warington

GEOLOGICAL SOCIETY OF LONDON,—March 20: Prof. Warington W. Smyth (President) in the chair. Jas. Danford Baidry, Queen-square-place, Westminster, and Coutts Trotter, Cadogan-place, S.W., were elected Fellows. The following communications were read:—

1.—"Report on Recent Discoveries of Gold in New Brunswick," by W. S. Shea: communicated by the Earl of Carnarwon. Mr. Shea gave, in his report, a detailed account of his explorations into the gold-bearing gravels of certain rivervalleys in the counties of Victoria, Northumberland, Carleton, and York, in Central New Brunswick, He had been enabled therefrom to draw the following inferences:—1. That the gold in these aliuvial deposits is derived from the quartz veins penetrating the rock of the district.—2. That the gravel, which contains pebbles of all sizes, was derived from the distinteyration of the rocks of the district.—3. That, judging from the richness in gold of paying drift in California, it is probable that these auriferous gravels will pay also.

2.—"On the Discovery of Coal on the Eastern Slope of the Andes, by W. Wheelwright: communicated by Sir R. I. Murchison. The author reported the cecurrence of beds of coal on the eastern slope of the Andes, between the cities of Cordova and San Juan, about 25 leagues east of the latter city.

3.—"On the presence of Burbeck Beds at Brill, Buckinghamshire," by W. H. Blistow F. R. S. F. G. S. of the Geological Suvence of Glamorganshire," by W. H. Blistow F. R. S. F. G. S. of the Geological Suvence of Business and State Particular States.

3.—'On the presence of Burbeck Beds at Brill, Buckinghamsire," by the Rev. P. B. Brodle, M.A., F.G.S. 4.—'On the Lower Lias or Lias Conglomerate of Glamorganshire," by W. H. Bristow, F. R.S., F.G.S. 5. of the Geological Survey of Great Britain. 5.—'On Abnormal Conditions of Secondary Deposits when connected with the Somersetshire and South Wales Coal Basins, and on the Age of the Sutton and Southerndown Series," by Charles Moore, F.G.S. On Wednesday the following papers will be read:—1, "On the Dentition of Bhinoceros leptorhimus," by W. Boyd Dawkins, M.A., F.G.S.—2, "On the Drift of part of Warwickshire," by the Rev. P. B. Brodle, M.A., F.G.S.—3, "On the Sarata which form the Base of the Lincolnshire Wolds," by J. W. Judd, F.G.S. SOCIETY OF ENGINEERS.—On Monday evening a paper will be read on Pumping Engines for Town Water Supply, by Mr. Henry Davey.

DUNSTER, NEAR MINEHEAD, SOMERSET .- An important discovery of coal, copper, and iron, of a very superior quality and in great abundance has just been made by Capt. Richard Gregory. The sett is very extensive, and is favourably situated for the shipment of the ores at Minehead.

is favourably situated for the shipment of the ores at Minehead.

Coal IN India.—The coal fields at present discovered in Chindwarra extend over a surface of upwards of 50 miles, and varying in thickness of good coal from 3 to 13 feet. There can be little doubt that these coal fields are the most important discoveries that have been made in India for years. The official report gives a very high opinion of the coal as a fuel, its freedom from iron pyrites, and the great facility in working it. It would be needless to say more about the character of the coal after such an elaborate report by the Geolegical Surgey officers; but it is our wish to show its value to the province, and more especially to the approaching Nagpore Railway.—Friend of India.

0 fm

n lod Iarke

e same Whea Point At the

ek hu

n thes vithou

f about ales by of fine mman ngs re-

919 1

,817 8

turbing ssumed ays ago iness, is Dublin ed with arrests unts are ago held

expresse of the aght so Catholic

he laity sobriety romal

mining icularly in tains affect-astantly

and consistently predicted by our Irish Correspondent. Of course, such serious interruptions to business as Ireland has just suffered, from so long a period of financial, political, and local panics, must necessarily leave very damaging effects behind for a considerable time, and, therefore, it is not surprising that business is yet very languid, and that prices even of the most valued securities, should, more or less, suffer, and transactions be on many days merely nominal. Even Government securities have for some time past been but little dealt in, fluctuations generally sympathising with London prices. Transactions in the general share market were also few, and mostly in favour of those who ventured on purchases. Mining shares, however, may be said to have suffered least, those of the Wicklow Copper Mining Company, for instance, having remained firm, and in strong request, at fractional fluctuations from 24l. per share (2l. 10s. paid), at which price buyers are predominating for cash, and at 24l. 2s. 6d. for account. Mining Company of Ireland shares have not been steady, and offer a good field for investment at the present closing price of 16l. 5s. for cash and account (7l. paid). Connorree Mines, which were exceedingly rich a century ago, and continued so to within the last ten years, depending now chiefly on recent fresh discoveries, which, however, promise well for the future, are naturally more liable to fluctuations, and have just experienced a fall in the price of shares to 12s. 6d. each, at which, however, they were freely taken. The General Mining Company for Ireland shares have also dropped in market value, and are obtainable at 2l. 5s. But the speculators who have been induced to invest their money in foreign speculations, instead of devoting it to the encouragement of national enterprise, and purchased shares in the Cape Copper Mining Company, which not long ago were quoted at about 100 per cent, premium, will regret to find that there is now but a limited demand for them at par,

The following dividends have been declared during March

he following dividends have been dectared during March:

Mine. Per share. Amount.

Great Laxey \$20 10 0 \$ \$7,500 0 0
Devon Great Consols 6 0 0 0 6,144 0 0
South Caradon 0 7 6 2,184 12 0
Great Wheal Vor 0 10 0 1,400 0 0
Wheal Mary Ann 0 12 6 640 0 0
Wheal Mary Ann 0 12 6 640 0 0
Wheal Telaway 0 5 0 260 0 0
Wheal Telaway 0 5 0 260 0 0
Postarena 0 2 6 2,750 0 0

At South Caradon Mine meeting, on Tuesday (Capt. Peter Clymo in the chair), the accounts for November and December showed a credit balance of 6026, 6s. id. The profit on the two months' working was 2985.11s.7d. A dividend of 3072t. (6f. per share) was declared, and 2954, 6s. id. carried to credit of next account. Captain Clymo reports—"Our prospects in the mine are still very good, with every probability of a continuance."

At the Foxdale Mines (Isle of Man) meeting, on Wednesday, the directors declared a dividend of 10s. per share.

At Wheal Buller meeting on Wednesday, the

At the Foxante Advidend of 10s. per share.

At Wheal Buller meeting, on Wednesday, the accounts for Jan. and Feb. showed a debit balance of 970l. 3s. 5d., and a loss on the two months' working of 283l. 16s. 5d. A cail of 2l. per share was made. It was resolved that the salaries of Capts. Inch and Mitchell be put at 2l. 10s. per month, and that the appointment of a second agent be left with the committee, who are requested to make the appointment at their next meeting.

At Crow Hill Mine general meeting, on Wednesday, the accounts showed a cash balance of 157l. 16s. 5d., and liabilities in excess, 2l. 3s. 8d. They have sold 30 tons 16 ewits. 3 qrs. of lead, for 75sl., and 6s tons of mundle for 4d. since the last meeting, and have now 200l. worth of lead ore on the mine, and about 30 tons of mundle. No call was made.

At Cuddra Mine general meeting, on Thursday, the accounts showed a cash balance of 165l. 7s. 10d.; and liabilities in excess, 950l. 13s. 8d.

At the Carnavonshire Consols Mine (special) meeting, on March 22 (Mr. H. Milford in the chairty, the special resolutions were passed. Details in another column.

(Mr. H. Milford in the chair), the special resolutions were passed. Details in another column.

At the Mwyndy Iron Ore Company meeting, on Wednesday (Mr. Charles Capper, M.P., in the chair), the report of the directors and balance-sheet was received and adopted. Details in another column.

At the Linares Lead Mining Company meeting, yesterday (Mr. Crosby in the chair), the report stated that the profit for the last six months was 3781, 16s, 11d.—a satisfactory result, considering the diminished raisings and low price of lead. There were still points of promise in the old mine, and great prospects of success in the new; and the directors hope to be able to declare a dividend at the next general meeting. The report was received and adopted. The details will appear in next week's Journal.

At the Fortuna Mine meeting, yesterday (Mr. Charles Morris in the

spects of success in the new; and the directors hope to be able to declare a divided at the next general meeting. The report was received and adopted. The details will appear in next week's Journal.

At the Fortuna Mine meeting, yesterday (Mr. Charles Morris in the chair), the report stated that the profit on the working account during the six months amounted to 36331. This is somewhat below the amount realised during the preceding half-year; but, considering the adverse circumstances the company has had to contend against, the result is very satisfactory. The report was received and adopted. Details will appear in next week's Journal.

At the Alamillos Company meeting, yesterday (Mr. Crosby in the chair), the report stated that considerable progress had been made during the past year in developing the resources of the mines, a great deal of dead work, from which no benefit has yet been derived, has had to be done, and hence the costs have ruled somewhat higher, but the mines are now paying their way—indeed, the directors have reason to believe they have yieleid a small profit during the past three months. The report was received and adopted. Details will be given in next week's Journal.

At the New Mansfeld Copper and Silver Mining Company general meeting, on Thursday (Sir Charles Bright, M.P., in the chair), the resolutions passed at the last general meeting as to the forfeiture of shares in arrear was confirmed. The Chairman then stated that the next business before the meeting was the increase of capital rendered necessary by the alteration in the mode of towrking, and to meet the debt, amounting to about 16,0002, which the directors had been compelled to contract. After some discussion, it was resolved that the apital of the company be increased by the sum of 25,0002, by the issue of 2500 shares, of 10.6 each, such new shares being entitled to a preference dividend of 10 per cent. per annum, with an option to the owner to convert any of such shares into the ordinary stock of the company, on giving notice n

The Russian (Vyksounsky) Ironworks Company Shareholders' Committee have issued (through Messrs. Harrison, Lewis, and Co., their solicitors) a circular enquiring what dissentient shareholders have applied for debenders and the or fused, with a view to prevent the directors from breaking faith with those entitled to withdraw. The directors, it will be remembered, bound themselves by a regular stamped deed, signed by Mr. Austin, the Chairman, and sountersigned by Mr. Courtney Clarke, the secretary, and stamped with the company's seal, to take no further proceedings against dissenting shareholders by appeal, or otherwise, to strike their names off the register, and to give them debentures for their shares. The directors amounced that the debentures would be ready for issue on March 29. Many debentures were applied for and issued, but misled by the decision in Kincaird v. the Russian Ironworks Company, on Friday, the directors stopped the issue the following morning. Of course, all that will be necessary is to proceed for the enforcement of the engagement.

On the Stock Exchange an average amount of business has been

that will be necessary is to proceed for the enforcement of the engagement.

On the Stock Exchange an average amount of business has been transacted in Mining Shares during the week. The following quotations were officially recorded in British Mining Shares:—Great Wheal Vor, 21\frac{1}{4}, 21, 19\frac{3}{4}, 20\frac{1}{4}; Prince of Wales, 2\frac{1}{4}, 2\frac{3}{4}, 2\frac{3}{4}; South Wheal Frances, 18\frac{1}{4}; Wheal Buller, 24; West Basset, 1; South Condurrow, \frac{1}{4}, 1; Drake Walls, \frac{1}{3}; Chiverton, 7\frac{1}{4}; Great South Tolgus, \frac{1}{6}; West Chiverton, 62\frac{1}{4}, 65; Great Laxey, 17\frac{1}{4}—In Colonial Mining Shares the prices were:—Yudanamutana, \frac{1}{4}, 1; Port Phillip, 5; General, 19\frac{1}{4}; Scottish Australian, \frac{1}{6}—In Foreign Mining Shares the prices were:—Pontgibaud, 8\frac{1}{4}: Don Pedro North del Rey, \frac{1}{6}, \frac{1}{4}, \frac{1}{4} prem.; Chontales, 2\frac{1}{4}, 2\frac{1}{4}, 2\frac{1}{4}; St. John del Rey, 55\frac{1}{4}.

COAL MARKET.—This week 75 vessels have come forward, mostly

COAL MARKET.—This week 75 vessels have come forward, mostly crew steamers. The demand for house coal has ruled dull throughout, and prices have fallen 1s, 6d. per ton on first-class coals, and ather more on other descriptions. Hartley's have remained steady, at the late quotations, Hetton Wallsend, 21s.; Haswell Wallsend,

21s.; Harton Wallsend, 17s. 6d.; Tunstall Wallsend, 17s. 6d.; West Hartley, 17s. Unsold, 2; at sea, 140 ships.

COPPER TRADE.—Messrs. Vivian, Younger, and Bond (March 29) write—Throughout the week the trade has shown signs of general depression, and, though values have not altered to any considerable extent, the want of demand is greatly felt. Australian kinds must be quoted 1l, per ton lower. Further sales of Chilli bars have been made at 71t. 10s., and a small sale of regulus is reported at 14s. 3½d. per unit. In English descriptions no important business is reported.

The Iron Trade,—Messrs, Shaw and Thomson (March 27) say—
The Iron trade since this day fortnight has been quieter in tone than at any period during the present year. One of the causes leading to this result has arisen from the embarrassments of some of the large railway companies, which have made it obvious to the manufacturers of rails that nothing beyond their most pressing wants may be expected to come into the market. It is satisfactory to find that the orders from America, Russla, and India have recently been so extensive as to make this a matter of smaller concern than it might otherwise have been. We are able to report a better demand for sheets, bars, hoops, &c., for India, and it may now be anticipated that the want of confidence which has litherto pervaded dealings with Indian houses will gradually disappear. The state of the shipbuilding trade is slowly improving; cheap iron, and a low scale of wages, naturally tempt the wealthy steam-ship companies and large private ship owners to take so favourable an opportunity as the present to increase their fleets. We need only recur to the wants of the Government yards, to say that the next fluancial year promises to be as extensive as the last. In Staffordshire there are great complaints of the dulness of trade, especially amongst the second-class makers, and the rolling-mills are only at work intermittently. In Scotland the demand for manufactured fron has slightly improved, Pig-iron has been very flat; the price, however, is still above 50s, per ton, which is very high, considering that in 1852, when the trade was in the same state as it is at present, the price was only 36s, per ton. At that time the stocks were very large, and the means of production greatly exceeded the requirements. A fall of 2s. to 3s. took place last week, and it would, no doubt, have been much greater were it not that the market is supported by factitious aid. The North of England trade has been quiet; a fair business has been done in pig-iron for foreign shipment at prices about 10 THE IRON TRADE. - Messrs, Shaw and Thomson (March 27) say

not been accurately ascertained, but it is consistent at least a fair trial."

TIN MINERS' ASSOCIATION.—At a meeting of mine agents and others, convened by Capt. William Teague, of Tincroft, and held at Camborne, on March 19, the destrability was discussed of forming an association, having for its object the collecting and recording of information relating to the production of tin, and to the various markets for the sale of that metal, both home and foreign, and the protection and advancement of the tin mining interest of Cornwall and Devon. The meeting was adjourned for a fortnight.

NORTH WHEAL CHIVERTON SILVER-LEAD.—In consequence of the good discovery of silver-lead ore in the 80, and the indications similar to West Chiverton, the applications have already been considerable, and it is expected the share list will shortly be closed. The shares on the market during the week have been in demand at 4½ to 4¾.

#### Contract for Pig-Iron.

CONTRACT DEPARTMENT, ADMIRALTY, SOMERSET HOUSE.

THE COMMISSIONERS for Executing the Office of Lord High Admiral of the United Kingdom of Great Britain and Ireland, do hereby give no o'clock, they will be READY to TREAT with such persons as may be willing to CONTRACT for SUPPLYING and DELIVERING into store at Her Majesty's several Dockyards, EIGHT HUNDRED TONS of SOFT MELITING PIG-IRON, according to a distribution, which, with a form of the tender and conditions of contract, may be seen in the lobby of the Storekeeper-General's Department, Admiralty, Somerset House. No tender will be received after Two o'clock on the day of treaty, nor will any be noticed unless the party attends, or an agent for him duly authorised in writing.

Every tender must be addressed to the Secretary of the Admiralty, and bear in the left-hand corner the words "Tender for Pig-Iron," and must also be delivered at the Department of the Storekeeper-General, Admiralty, Somersat House, accompanied by a letter signed by two responsible persons, engaging to become bound with the person tendering in the sum of £25 per cent, on the value for the due performance of the contract.

By order, ANTONIO BRADY, Registrar of Contracts and Public Securities, Contract Department, Admiralty, Somersat House, 28th March, 1867.

TO COAL OWNERS AND OTHERS.

THE LONDON PATENT COAL COMPANY are now GRANTING LICENSES for the USE of their PATENT for the UTILIZATION of COAL DUST. All communications to be addressed to the Manual Director, 26. Martin's-lane, Cannon-street, E.C.

COLLIERY IN NORTH WALES.—THREE GENTLEMEN REQUIRE TWO OTHERS to JOIN THEM IN DEVELOPING a valuable COLLIERY IN NORTH WALES. Capital required about £5000 each.—Address "A. B.," care of Mr. Leigh, 30, Brown-street, Manchester.

TO COLLIERY MANAGERS.—WANTED, by a Young Man, who has just completed bis term of apprenticeship at a large colliery in the county of Durham, a SITUATION as ASSISTANT VIEWER, or to KERRUP PLANS, &c. Salary not so much an object as employment. Good references.—Address, "T. D. K.," MINING JOURNAL Office, 26, Fleet-street, E.C.

WANTED,—A RE-ENGAGEMENT as COLLIERY MANAGER,
Many years' experience and first-class testimonials. No objection to
go abroad.—Apply to "H. M.," MINING JOURNAL office, 26. Fleet-street, London.

WANTED, an ASSISTANT MANAGER for the BARROW IRON AND STEEL WORKS. He must thoroughly understand blast-furnaces, engines, rolling-mill machinery, &c.—Address, the BARROW HEMANT STEEL COMPANY, Barrow-in-Furness, Lancashire.

TO IRON, COPPER, RAILWAY COMPANIES, &c.—A GENTLEMAN of good position, with eighteen years' experience in London (as a principal) in the iron and Metal Trade, DESIRES to CONNECT HIMSELE with a first-class IRON, COPPER, or other COMPANY in LONDON, where his special knowledge could be made available. The highest references and security can be given.—Address, with full particulars, to "M. H.," gars of Robert Wiltshire, Esq., Solicitor, 9, Cloak-lane, Cannon-street, E.C.

TO GOLD MINING COMPANIES, AND OTHERS.—The ADVERTISER, who has had considerable experience as a Mining Engineer, and is thoroughly acquainted with the extraction of gold from quartz, &c., WISHE'S a RE-ENGAGEMENT TO GO ABROAD, to ERECT, OF SUPERINTEND, GOLD REDUCTION WORKS, or to TAKE THE GENERAL MANAGEMENT OF GOLD MINES, Good references will be given.—Apply of M. E.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

A GENTLEMAN, aged 40, of considerable experience, having had a good Mining and Engineering Education, and accustomed to the Management of Mines, &c., WISHES A RE-RIGAGEMENT as MANAGER to A COMPANY about to OPEN OUT NEW MINES, either in SCOTLAND or IR. LAND. First-class references can be given. No objection to going abroads, J. Address, "P. Q.," care of Lee and Nightingale, Advertising Agents, Liverpool.

GENTLEMAN having an extensive connection with merchants A manufacturers, and others, would be GLAD to UNDERTAKE the SA of PATENTED ARTICLES or INVENTIONS, upon commission.—Apply Mr. W. T. RAWLE, patent and mining agent, 8, Small-street, Bristol.

COMMISSION AGENCY.—A GENTLEMAN, residing in the Iron and Coal Districts of Glamorganshire, is OPEN to ACCEPT COMMISSIONS for the SALE of any ARTICLES used in IRONWORKS and COLLERIES. First-class references, and good connection.—Address, "Ferrim MINING JOURNAL Office, 26, Fleet-street, London, E.C.

WANTED,—REGULAR SUPPLIES OF FLUOR SPAR, fit for smelting purposes, dolivered at any convenient port for shipping. Address, in first instance, "F. L. S.," Post Office, Swansea.

TO COLLIERY OWNERS AND OTHERS.—ON SALE, broad, with 42 1½ in. round wrought-iron arms, and wrought arise 6½ in. diameter, by 6½ in. meter, suitable for 5 in. journals. Quite new. To be seen at the Rotherham, Masbro', and Holmes Coul Company, Rotherham, Apply, JAMES NELSON and SON, Engineers, &c., Wakefield.

CLIFFORD AMALGAMATED.—WANTED TO EXCHANGE, I MOOR, NORTH ROSKEAR, and EAST LOVELL.—Address, "Y. D.," MINITO JOURNAL Office, 26, Fleet-street, London, E.C.

LANFAIR GREEN AND BLUE SLATE QUARRY COMPANY (LIMITED).—Manager, T. HARVEY, Esq.—TO BE SOLD, FORTY SHARES, at £1 per share. No calls.—Address, "A. B.," Manager Journal Office, 26, Fleet-street, London, E.C.

PINEST HEMATITE IRON ORE.—FOR SALE, a MINE, containing a very large lode, which can be worked for years without machinery. Moderate dues, and very easy carriage to port. The last sale of own made 20s. per ton.—Apply to Capt. HITCHENS, St. Teath, Camelford, Cornwall.

NORTH WHEAL CHIVERTON.—AN IMMEDIATE APPLICATION to Mr. J. BATTERS, 13, THROGMORTON STREET, LONDON, E.C., will SECURE A FEW SHARES in this VALUABLE PRO. 6 3 PERTY. Prospectuses, &c., forwarded on application.

THE HEIDBERG LEAD AND COPPER MINE, situated one mile from the WILDBERG MINE, on the borders of WESTPHALIA, is ON SALE.—Particulars may be obtained from the agent, Mr. E. KLAPPERT, through letters addressed to Mr. H. K. KLAPPERT, Haverford West.

SULPHATE OF BARYTES FOR SALE, F.O.B. trucks or vessel, at Carmarthen, at a low price.

Address, A. WATERS, Carmarthen.

A N G L O - M E X I C A N M I N T O F F I C E.—

Notice is hereby given, that the ANNUAL GENERAL MEETING of shareholders in this company will be HELD at the office, as under, on TUES-DAY, the 2d day of April next, when one director will be elected in the place of George Curnow Hockin, Esq., who goes out by rotation, but is eligible for re-election, and will be proposed accordingly.

The chair will be taken at One o'clock precisely.

4. Finsbury-place South, March 22, 1867.

NOUVELLE MONTAGNE COMPANY.—The shareholders are hereby informed that the ANNUAL GENERAL MEETING will be HELD at the Hotel d'Angleterre, Liege, on MONDAY, the 8th April next, at One o'clock P.M.

N. BOUHY, Le Directeur Général de la Société. Engls, the 25th February, 1867.

MR. T. L. C O T T I N G H A M,
MINING ENGINEER, VIEWER, AND AGENT.
COLLIERIES, MINES, QUARRIES, AND MINERAL PROPERTIES INSPECTED, SURVEYED, VALUED, REPORTED ON, AND MANAGED.
BORINGS, &c., CONDUCTED.
OFFICES,—No. 4, WREXHAM STREET, MOLD.

Agent for the National Steam Boiler Insurance Company (Limited). Leases of several good Coal, Lead, and Slate Properties for sale.

Leases of several good coat, Lead, also state Properties for safe.

OHN HOCKING AND SON, ENGINEERS, REDRUTH,
CALL the ATTENTION of COLLIERY PROPRIETORS and others to
the present favourable opportunities for the purchase of secondhand CORNISH
PUMPING ENGINES and BOILERS at cheap rates. Plans, valuations, removal, &c., of every description of mining machinery undertaken.
FOR SALE, ONE 36 in. PUMPING ENGINE, also an excellent CRUSHER.

WALTER TREGELLAS, 122, BISHOPSGATE STILET WITHIN, E.C., DEALS in ALL KINDS of bona fide STOCKS and SHARES, and BRITISH and FOREIGN MINES, either for cash or the fort-nightly settlement at close prices.

Recommends the purchase of Don Pedro North del Rey, Anglo-Brazilian, East Caradon, South Crofty, West Frances, West Tolgus, East Gannislake, Chiverton Moor, Camborne Vean, Emily Henrietta, and Westminster.

Bankers: Alliance Bank,

MONTGOMERYSHIRE (late manager of the Brynpastig and Cwm Fron Mines, and others, in Shropshire and Wales), is NOW OPEN to INSPECT and faithfully REPORT UPON ANY LEAD MINE in either of these localities that may be confided to his care, having had better than 30 years' experience in lead mining, as miner and agent.—Address, Capt. S. M. RIDGE, Llanidloes, Montgomeryshire.

SLATE QUARRY REPORTS.—JOHN BOWER, D.C.L. Oxon, Barrister-at-law, who has been for nine years Manager and Director of the Snowdon State Quarries Company (Limited), is PREPARED to INSPECT and REPORT would include every fact FAVOURABLE or UNFAVOURABLE.

REPORT would include every fact FAVOURABLE or UNFAVOURABLE.

Address, Glydir View, Lianberls.

RITISH, COLONIAL, AND FOREIGN PATENTS, REGISTRATION OF DESIGNS, COPYRIGHTS, TECHNICAL TRANSLATIONS, DRAWINGS, &c.

MR. MICHAEL HENRY,
Memb. Soc. Arts, Assoc. Soc. Engineers, Author of the "Inventors' Almanac," and the "Defence of the Present Patent Law,"

PATENT REGISTRATION AND COPYRIGHT AGENT AND ADVISER. Inventors advised in relation to Patents and Inventive and Industrial Matters, Printed information sent free by post. Specifications drawn and revised. Searches conducted. Abstracts, Cases, and Opinions drawn.

Translations of Catalogues, Trade Notices, and Circulars for the approaching Paris Exhibition. Mr. HENNY has had especial experience in technical French, offices, 68, Fleet-street, E.C., London, corner of and entrance in Whitefriars-street.

LEAD ORES. 

|       |            |   |   | B    | LEN | DE    |     |      |                      |
|-------|------------|---|---|------|-----|-------|-----|------|----------------------|
| Date. | Mines.     |   | 2 | Tons |     | Price | per | ton. | Purchasers.          |
| March | 22-Cargoll |   |   | . 37 |     | . £ 5 | 0   | 6    | Vivian and Sons.     |
|       | - ditto    |   |   | 63   |     | . 1   | 14  | 0    | ditto                |
|       | - ditto    |   |   |      |     |       |     |      |                      |
|       |            |   |   |      |     |       |     |      | David Swan, Jun.     |
|       | 28-Treloga | n |   | 100  |     | . 4   | 4   | 6    | Bagillt Smelting Co. |

BLACK TIN.

Date. Mines. Ts. c. q. lbs. Price p. ton. Amount. Purchasers. March 20—Pedn-an-drea.. 8 12 2 16 .. — ... £ 469 3 1—Carvedras.

COPPER ORES. Sampled March 13, and sold at Tabb's Hotel, Redruth, March 28.

| Tons. | Price.   |    | Mines, Tons, Price                                   |  |
|-------|--|----|--|--|
| 85    | £5 19  | 0  | North Treskerby 54 £4 4                              | 0  |
| 78    | 4 18   | 6  | ditto 50 5 7   | 6  |
| 75    | 8 5  | 0  | ditto 45 4 7   | 0  |
| 68    | 7 9  | 6  | Phœnix Mines 77 3 6                                  | 6  |
| 65    | 7 2  | 6  | ditto 76 3 17  | 6  |
| 56    | 14 15  | 6  | ditto 23 7 4   | 0  |
|       |  | 0  |  | 6  |
| 27    | 15 12  | 6  | Craddock Moor 70 5 4                                 | 0  |
|       |  | 0  |  | 0  |
|       |  | 0  |  | -  |
|       |  | 6  |  | -  |
|       |  | 0  |  | -  |
|       |  | 0  |  |  |
|       |  | 6  |  |  |
|       |  | 6  |  |  |
|       |  | 6  |  |  |
|       |  | 0  |  |  |
|       |  | 6  |  |  |
|       |  | 6  |  | Ö  |
|       |  | 0  |  | 6  |
|       |  |    |  | Ö  |
|       |  |    |  | 0  |
| 58    | 4 17   |    | ditto  | o  |
|       |  |    |  |  |
|       |  |    |  | 6  |
|       |  |    |  |  |
|       | 85<br>78<br>75<br>65<br>56<br>56<br>37<br>27<br>27<br>27<br>28<br>98<br>91<br>58<br>56<br>44<br>41<br>23<br>68<br>66<br>57<br>55<br>40<br>40<br>36<br>40<br>41<br>41<br>28<br>56<br>56<br>56<br>56<br>56<br>56<br>57<br>47<br>47<br>47<br>58<br>58<br>58<br>58<br>58<br>58<br>58<br>58<br>58<br>58<br>58<br>58<br>58 | 85 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 85         £ 5         9 0         North Treskerby         54         £ 4         4         7         75         4 18         6 ditto         50         50         61         61         50         6         4 7         7         68         7 9         6 ditto         50         4 7         7         68         7 9         6 ditto         50         4 7         7         6         3 0         6         3 0         6         3 0         6         3 0         6         3 0         6         3 0         6         3 0         6         3 0         6         3 0         6         3 0         6         3 0         6         3 0         6         3 0         6         7 0         6         4 0         3 0         6         7 0         6         4 0         8 0         9 0         6         7 0         6         4 0         8 0         9 |

LIERIES. First-class references, and good connection.—Address, "Ferrain" MINING JOURNAL Office, 26, Fleet-street, London, E.C.

South Caradon 491 & £234 8 0 | West Caradon 140 & £ 565 16 Clifford Amalga. 411 1455 8 0 | West Caradon 491 & £234 8 0 | West Caradon 140 | Longon 401 | Longon 401

 titandard of corresponding sale last month, £108 15 0.— Produce, 7½

 COMPANIES BY WHOM THE ORES WERE PURCHASED.

 Names.
 Tons.
 Amount.

 Vivian and Sons
 191½
 £1851 10 3

 Freeman and Co.
 194½
 877 19 6

 Grenfell and Sons
 247 %
 1499 2 0

 Sims, Willyams, and Co.
 255½
 1329 13 3

 Williams, Foster, and Co.
 357½
 1881 12 6

 Mason and Elkington
 174
 657 4 0

 Bankart and Sons
 190
 1507 19 0

 Copper Miners' Company
 413
 1660 14 3

 Charles Lambert
 163
 376 13 0

 Sweetland, Tuttle, & Co.
 59½
 110 6 3

Copper ores for sale at Tyack's Hotel, Camborne, on Thursday next.—Mines and Parcels.—Wheal Seton 783—West Seton 522—Clifford Amalgamated 441—West Tolgus 362—South Crofty 342—East Pool 145—Wheal Basset 136—Carn Camborne 130—Dolcoath 59—East Basset 46—Tresavean 37—Tincroft 32.—Total,

3035 tons.

Copper ores for sale at Tabb's Hotel, Redruth, on Thursday week.—Min and Parcels.—Prosper United 403—Carn Brea 275—East Carn Brea 219—Pt Consols 145—Crenver and Abraham 145—Rosewarne United 118—Botallack 94 South Dolcoath 58—Mellanen 35—Great South Tolgus 28—Rosewarne Consols —Pendeen Consols 18—Buglehole's Ore 13—Stray Park 8.—Total, 1586 tons.

#### WATSON AND CUELL'S MINING CIRCULAR

WATSON AND CUELL.

MINING AGENTS, STOCK AND SHARE DEALERS, &c. 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

MINING AGENTS, STOCK AND SHARE DEALERS, &C.

1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

MESSRS. WATSON AND CUELL having made arrangements for transferring their weekly Circular, which has had so large a circulation during the past ten years, to the columns of the Mining Journal, their special eports and remarks upon mines and mining, and the state of the share market, will in future appear in this column.

In the year 1842, when Cornish mining was almost unknown to the general public, attention was first called to its advantages, when properly conducted, it is the "Compendium of British Mining," commenced in 1873, and published in 1843, by Mr. J. Y. WATSON, F.G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (second series, 1863), "The Progress of Mining," with statistics of the Mining Interest, annually for 21 years, &c. &c. In the Compendium, published in 1843, Mr. WATSON was the first to recommend the system of a "division of small risks in several mines, ensuring success in the aggregate," and Messrs. WATSON and CUELL have always a selected list on hand. Perhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advice in regard to mines and share dealing than there is at present; and, from the lengthened experience of Messrs. WATSON and CUELL they are emboldened to offer, thus publicly, their best services to all connected with mines or the market, as they have for so many years done privately, through the medium of their own Circular.

Messrs. WATSON and CUELL transact business in the purchase and sale of mining shares, and other securities, payments of calls, receipt and transmission of divi ends, obtaining information for clients, and affording advice, to the best of their knowledge and judgment, based on the experience of more than 30 years active connection with the Mining Market.

Messrs. WATSON and CUELL are also daily asked their opinion of particular mines, as well as to "ecommend mines to the best

as mining.

Messrs. WATSON and CUELL having agents and correspondents in all the mining districts, and an extensive connection among the largest holders of mining property, have the more confidence in tendering their advice on all matters reating to the state and prospects of mines and mining companies, and are able to supply shares in all the best mines at close market prices, free of all charge for commission.

to supply shares in all the best mines at close market prices, free of all charge for commission.

WEST PRINCE OF WALES—"X. X."—Although in a large number of shares, they will be well held. We have heard of the advice named, as we also heard of the advice of the same parties to sell Prince of Wales at 5s., and we wonder what those who acted upon it think now! There is no reason why West Prince should not turn out equally good, and we and others are satisfied to take a large interest and hold it.

"M. A."—We have not yet got all the information necessary.

"X. Y. Z."—If our correspondent turns to a map of the district he will find the eivan course which made all the ore in Holmbush runs through Prince of Wales, from one corner of the mine to the other, and it underlies south into the sett. It also passes through West Prince of Wales. The richest mines in Cornwail have all made their returns in connection with eivan courses.

"A BONA FIDE HOLDER "is quite rightto rely solely upon the agent's reports; and the fact, that in the face of adverse statements, shares continue to rise, shows the estimation in which the public hold the authors of them. An agent, whose report was published last week as a "special," says—"The next sampling will, probably, realise about 1000L, at a cost of 800L, showing a profit of 200L, on the turn months." This is about as true as other parts of his report. The last sampling was on February 8, so that the present sampling is for seven weeks, and not two months. Last sale was estimated by the agent at 700L, it produced 800L; and if the present sampling brings the same price—SL per ton (1200L)—the profit will be 500L at least, while the present rate of raising is equal to 500L, end month profit. In reference to the machinery, the engine is capable of taking the mine down nearly 100 fms., so that in a year or two it will be time enough to think of a larger one. The mouthly cost is under 500L, including merchants' bills. The royalty is 1-18th.

# No. XIV., April. price Five Shillings, UARTERLY JOURNAL OF SCIENCE. CONTEXTS: CONTEXTS: SEA. By Dr. CUTHBERT COLLINGWOOD, Naturalist on board H.M.S.

II. NERVE STRUCTURE AND FORCE. By HOLMES COOTE, F.R.S., of

II. NERVE STRUCTURE AND FORCE. By HOLMES COOTE, F.R.S., of St. Bartholomew's Hospital.

III. THE POLINESIANS AND THEIR MIGRATIONS. By ALFRED R. WALLACE, F.R.S., &c.

IV. LOUIS FIGURER. With two page plates.

V. THE VENTILATION OF COAL MINES; with page plate and woodcut. By ROBERT HUXT, F.R.S., Keeper of the Mining Records.

VI. BELGIAN COMPETITION IN THE IRON MANUFACTURE. By BERN-HARD SAMULSON, M.P.

VII. MANCHESTER: ITS SANITARY AND SOCIAL STATE, AND ITS CORPORATE RULERS. By GEORGE GREAVES, Consulting Medical Officer, Chortton Union Hospital, &c.

VIII. THE ARTISANS AND LABOURERS DWELLINGS BILL. CHRONICES OF SCIENCE.

THE PUBLIC HEALTH.

JOHN CHURCHILL and SONS, New Burlington-street.

THE USEFUL WEATHER GUIDE FOR FARMERS GARDENERS, SAILORS, &c. Six copies sent free by post on receipt of two penny stamps - Address, T. Roberts and Co., Crane-court, Fleet-street.

DRITISH AND FOREIGN INVESTMENT,

MR. THOMAS SPARGO, STOCK AND SHAREDEALER, 224 and 225

GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C., TRANSACTEVERY DESCRIPTION of BUSINESS in the PURCHASE and SALE OSHVESS in BANKS, CANALS, MINES, RAILWAYS, BRIDGES, INSUR ANCES, and ALL OTHER DESCRIPTIONS OF BRITISH and FOREIGN STOCK.

Mr. SPARGO has 20 years' experience of mining, ten of which he was engaged in practical mining, and ten years he has transacted business in mining share and stock, at 224 and 224, Gresham House, Old Broad-street, City, E.C.

Bankers: Consolitated Bank, and Metropolitan and Bank (Limited)

QUIDE TO INVESTORS.—Mr. SPARGO'S "Guide to Investors Mining, and other Companies, City Facts and Incidents, and a Price List Shares in Banks, Canals, Railways, Bridges, and Finance Companies; article on the most important Commercial subjects. It also contains Rate of dipiscount at Hone and Abroad; Investments—Domestic and Foreign; Gol and Silver Mines; together with necessary detailed information connected withe Stock and Share Markets, Mines, and Miscellaneous Companies.

224 and 225, Gresham House, Old Broad-street, London, E.C., March, 1847.

JAMES SCOTT AND CO., STOCK AND SHAREDEALER AMES SCOTT AND CO., STOCK AND SHAREDEALEM
1, PINNER'S COURT, OLD BROAD STREET LONDON, E.C.
All Stock Exchange securities dealt in at close market prices for cash or the bi-monthly settlement. References given to any town in the United Kingdon JAMES SCOTT and Co. have SPECIAL BUSINESS in the following MIN SHARES:—East and West Caradon, East Lovell, East Whenl Russell, Nort Crofty, Frank Mills, Drake Walls, Prosper United, Prince of Wales, Great But Tolgus, Chontales, and Frontino and Bolivia.

MINING OFFICES, MANCHESTER.

THOMAS MOLYNEUX AND CO., MINE AGENTS ANI
SHAREBROKERS. Reliable information can be obtained as to purchas

l sale of shares. ffices of the Elien United Copper and Zinc Mining Company (Limited), and zael Grove Siver-Lead Mining Company (Limited). THOMAS MOLYNEUX retary, 28, Princess-street, Manchester

MANCHESTER, AND WEST END OF LONDON

B. W. HANNAM, MINING, SLATE QUARRYING
INSURANCE AND GENERAL SHAREBBOKER.
ROYAL INSURANCE BUILDINGS, KING STREET MANCHESTER; and
49. STRAND, LONDON, W.
INSTANTANEOUS COMMUNICATION with the STOCK and MANCE
EXCHANGES, avoiding the delay and annoyance of visiting the City to see tain prices. A Monthly Investment Circular on application.

SHAREHOLDERS IN PUBLIC COMPANIES desirous of avoiding calls and further responsibility will find purchasers on applyin to Messrs. BARRETT AND CO., 78. LOMBARD STREET, "ITY, and No. 2 SPRING GARDENS, CHARING CROSS. Stocks, shares, mining, and tiple miscellaneous securities bought and sold. Investment Review on application Cash advances made.

MR. D. STICKLAND, M.E., having had upwards of 40 year

mining experience in Cornwall, several years of which he has had the entire management of mines therein, enables him to GIVE GOOD ADVICI thereon.

Mining, Railway, and other Shares bought, sold, or exchanged. Shares to Sale in mines and quarries that will pay 15 to 20 per cent, per annum.

Offices, 5, Finsbury-street, London, E.C.

Offices, 5, Finsbury-street, London, E.C.

ACCIDENTS WILL HAPPEN
Elogo in case of Death, or £6 per week while laid up by Injury, caused by
ACCIDENT OF ANY KIND (riding, driving, hunting, shooting, fishing, &c.)
may be secured by an Annual Payment of from £3 to £6 £s. to the
BAILWAY PASSENGERS' ASSURANCE COMPANY,
The Oldest Established and Largest Company in the World insuring agains
ACCIDENTS OF EVERY DESCRIPTION.
For particulars apply to the Clerks at any of the Railway Stations, to the
JEFICES,—64, CORNHILL, and 10, REGENT STREET, LONDON.
WILLIAM J. VIAN, Sec.

NORTH WHEAL CHIVERTON LEAD MINE.

In 3000 shares

On the Cost-Book System.

A Committee of Management will be chosen at the first meeting

BANKERS.

The Alliance Bank (Limited), London.

LONDON MANAGER. GEORGE NOAKES, Esq., F.G.S., No. 181, Gresham House, Old Broad-street, London, E.C.

LOCAL AGENT. Captain William Hancock.

SOLICITOR.
Tufnell Southgate, Esq., 7, King's Bench Walk, Temple, London, E.C. BROKERS.

Messrs. Staples and Bretherton, 4, Royal Exchange Avenue, London, E.C.

#### PROSPECTUS.

This mine is situated in the best and most productive lead mining district in Cornwall, and is a little to the north of the justly celebrated West Chiverton

West Chiverton may be termed the richest and most profitable silver-lead mine in Cornwall, and is now paying dividends to the fortunate shareholders at the rate of £20,000 to £25,000 per annum (or £7 to £8 per share).

West Chiverton was sold about April, 1863, to some three gentlemen, for the sum, it is stated, of £30,000 (or at the rate of £10 per share), and was afterwards divided into 3000 shares. It is now selling at £60 to £62 per share, or (say) £180,000 to £185,000, and at one time (since 1863) attained the high figure of £85 to £90 per share, or upwards of £250,000 to £260,000 for the mine.

From the time of the purchase, about April, 1863, at the rate of £10 per share, the mine quickly and greatly improved, for in October—only some six months after the purchase—a dividend of 15s. per share, or 2250L, was paid to the shareholders; and at the end of December, in the same year (1863), the shares had risen to £54, £55 each, or £162,000 to £165,000, for that which had been purhased only some eight months previously for about £30,000. Since this period the mine has gradually and wonderfully improved as depth has been attainedthe mine has gradually and wonderfully improved as depth has been attained— i.e., the 80 fm. level (same level as North Wheal Chiverton is now at) down to their present rich part, the 100 fm. level. At the 80, in West Chiverton, a rich lode was cut into, worth from £50 to £70 per fm. It may be well also to state that, in addition to the great outlay made in machinery, &c., on West Chiverton (out of profits), since 1863, the to:al amount paid in dividends up to the present time is stated to be £177s. 6d. per share (or £52,125), which, with the balance to the credit of the company, is more than double the amount paid for the purchase of the property only some four years ago; and, as before stated, the market value of the mine is now £60 to £62 per share, or £180,000 to £185,000, with very probability of increasing the quarterly dividends to £3 per share, £36,000 per annum.

East Wheal Rose and the Old Shepherds Silver-Lead Mines (alluded to in the gents' reports), on a comparatively small outlay, are said to have realised the agents reports, on a comparatively small outnay, are said to have realised the enormous profits of about £300,000 to £400,000; and the shares in the former mine (East Wheal Rose) advanced from about £50 to £1000 and £1200 per share. As will be seen by the reports, the opinion is that "the lodes which proved so productive in Old Shepherds Mine are the same lodes worked on in North Wheal

There are several well-known productive lodes in North Wheal Chiverton from which considerable quantities of lead and blende have been raised and sold. and this only from a comparatively shallow depth, giving indications, border-ing almost on a certainty, of great productiveness by a deeper development, and driving of the present 80 fathom level, the strata being identical with that of West Chiverton and neighbouring productive min-

Lead and blende ores are now being raised, and as the development of the mine progresses the returns of ores will be greatly increased. It will be observed by the report of Captain Nancarrow (of West Chiverton Mine), that in alluding to the 80 (or bottom) level, he says it is cleared for some 50 fathoms in length, and that the lode is some 6 feet wide, showing a decided improvement, as compared with the shallower levels, and for the entire length is of a masterly and promising character, and that many fathoms of lead ground in the back of this evel (the 80) may be taken away at a profit to the company.

From the testimony of every practical agent who has inspected North Wheal Chiverton, it is inferred that, as depth is gradually attained, by sinking the shafts, and the driving of levels in new and unexplored ground, the lodes will prove highly productive for mineral, and that a rich and profitable mine will quickly be laid open.

The steam pumping-engine, machinery, pitwork, and dressing-floors, together with the work already done in and on the mine by previous adventurers, must have cost about £25,000 to £30,000 (or say about £10 per share—per 300th), the whole of which is in good working order, and operations at the mine are now being actively carried on.

There are several shafts sunk, which has been the work of several years. The old shaft is down to the depth of 80 fms. from surface, and this is the greatest depth that has yet been attained. It is supposed to be about the same depth (taking the geological position of the two mines) at which West Chiverton be-came so productlive and highly profitable.

The steam pumping-engine is a 50-in. cylinder (a new one about three years ago), and is capable of pumping the water to a very great depth.

From its proximity to West Chiverton, now selling at £60 per share, or \$180,000; Chiverton Mine, selling at about £3 per share, or £24,000; Chiverton Moor, selling at about £8½ per share, or £25,500; and Great Retallack, selling at about £3½ to £4 per share, or £17,000 to £18,000, and having similarly favourable conditions for the production of large quantities of lead and blende ore, it is only reasonable to expect that North Wheal Chiverton will prove equally as roductive as the other mines in this district when properly developed. Indeed, there is scarcely a doubt that discoveries of no ordinary importance will be me with, and that at no very distant period.

The last company was, as is well known, carried on under many and great disadvantages, and was obliged to suspend operations just at a time when, as it ould appear, they were about to meet with great success.

With a view of vigorously, and at the same time economically, prosecuting

erations, the adventure has been reconstituted by the present proprietors, on perations, the adventure has been reconstituted by the present proprietors, on he Cost-book System, in 3000 shares (same number as the above-named Chiver-ons), upon which a call of £4 per share has been made; which sum, after paying the present proprietors for the engine, machinery, pitwork, dressing-floors, and all expenses incidental thereto, including all the costs and liabilities up to the nd of March, 1867, will leave the sum of £5000 to the credit of the company, which sum, with the large development above described, competent minin authorities consider sufficient to place it in a profitable position.

The present proprietors, having already received applications for a number of chares, have determined to receive applications from the public for a limited portion only of the remainder, at £4 per share, £2 per share to be paid as deposit application, and the remaining £2 on allotment, and if no allotment is mad he deposit will be returned without deduction.

Priority will be given to the earliest applicants for shares.

The reports on the mine (and extracts of reports), by the best practical sining authorities in Cornwall (including the managers of West Chiverton, Chiverton Moor, and Chiverton Mine, and likewise the manager of Great Laxey fires, &c.), show that highly remunerative results may be confidently looked or (at an early period) from prosecuting the operations with vigour.

A Committee of Management will be elected at a meeting of shareholders, to held within one month after the closing of the share list

Applications for shares, in the form appended, accompanied with the deposit ay be made either to the Alliance Bank, London, Liverpool, and Manchester to the brokers, Messrs. STAPLES and BRETHERTON; or to GRORGE NOAKES, Seq. (the London manager).

FORM OF APPLICATION FOR SHARES.

To the proprietors of North Wheal Chiverton Silver-Lead Mine. GENTLEMEN,-Having paid to your bankers the su u of & , being the deposit of £2 per share on shares in the above mine, I hereby request you will allot ne that number, and I hereby agree to accept such shares (or any less number ou may allot to me), and to pay the remaining sum of £2 per share on allot-Usual signature .....

Name in full ..... Date ...... Profession or business..... Much inconvenience having arisen in consequence of several of the Numburging the past year being out of print, we recommend that the Journal control of the Reference of the Referen

Motices to Connespondents.

during the past year being out of print, we recommend that the Journal sha be fited on receipt: it then forms an accumulating useful work of reference.

CHONTALES GOLD AND SILVER MINING COMPANY.—Can any of your correspondents inform me why not more than 270 cas, of gold work of reference as mentioned in your report from the Chontales Gold Company? This commakes some 290 cas, sent since last March, and Capt. Paul, in his report in a Journal of last July, said that he could easily send home 8000 cas. before beginning of March. If so, why not have fulfilled his promise, and when it? And in the same report he states that a portion of the machinery was and all would be completed in three months; now, in last week's Journal, is stated that it is expected efficient machinery will be creeted by the "new wet season (or July). How is this; and what has Capt. Paul been dolar whis the way where all the machinery is that was sent out? It is but reasons matters of interest, for the commissioners sent out do not appear, "from the numerous reports," to satisfy the minds of the shareholders about the wings at the mines.—INQUIRER.

["Inquirer" and other correspondents should apply at the office of these pany, where information is, doubtless, obtainable by every shareholder, is true that Capt. Paul appears to have been incautious in his reports, then had on the correspondents which (owing to a change of cumstances) were not fulfilled. It is possible, too, that Capt. Paul may he had many unforseen hindrances to preven his doing all that he expension that the period he anticipated. It is stated that a large portion of the chinery, overtaken in transit by the wet season of last year before it could not may be a part of the country of the period of the chinery, overtaken in transit by the verse should be sufficiently had long of on the mice, would be immovable for six or eight months, until a ground, in March and April of this year, would be sufficiently had long of molecular than the period of construction during the last six months

or no returns are expected.]

HINERAL RIGHTS ASSOCIATION.—Notwithstanding the remarks of your or spondent in last week's Journal as to the business having "commenced ago, and that the directors are at present in negotiation relative to an instant property." &c., I can state that the property referred to has bean under consideration that the offer has been withdrawn, and the same acress by other parties. As a shareholder, my views generally coincide with me of your correspondents.—A. W.

of your correspondents.—A. w. PRINCE OF WALES.—Are the north and south lodes 12 or 22 fms. apart at shaft? At the last meeting they were stated to be 12 fms.; a correspondent last week's Journal said they were 22 fms.—which is correct?—Subschip RACTICAL MINING LITERATURE.—A new edition of Edderhorst's "Bern Analysis and Determinative Mineralogy" is in the press; it is revised by C. F. Chaudler, professor of Analytical and Applied Chemistry in the Schol Mines of Columbia College, New York.

Received,—" Enquirer"—" An Adventurer in Mines"—" A Big-Premi holder"

THE SLATE TRADE.—Pressure on our space compels us to postpone the le of "Snowdon," Mr. Thomas Harvey, and "Observer."

With last week's Journal we gave a SUPPLEMENTAL SHEET, which is published—Prof. Warington Smyth's Lectures at Royal School of Mines; on the Duration of our Coal Fields Mr. E. W. Binney, F.R.S.; Lists of Blast-Furnaces in Sen Staffordshire and East Worcestershire, and in Scotland; a Cannon King—Krupp; the Great North Laxey Mining of pany; Improved Inventions; Mineral Wealth of the Pacific,

# THE MINING JOURNAL

Railway and Commercial Gazette.

LONDON, MARCH 30, 1867.

No one possessing any acquaintance with the condition of a Metalliferous Mines and Collieries can have read the report of a recent debate in the House of Commons, without regretting that members of that House should attempt to legislate on any matter that the resolution of the condition of the members of that House should attempt to legislate on any mater which they are obviously ignorant. This is so apparent, especial in the remarks of Mr. CLIVE and of Mr. KINNAIRD, that we can but feel surprise that any men should presume to offer even sugations on matters connected with a great and important index knowing so little of the conditions involved. Mr. CLIVE, for ample, concludes, from having read a section here and there in Report of Lord KINNAIRD's Commission—and even these careless that all our metalliferous mines have a temperature of receiving that all our metalliferous mines have a temperature of nearly!! Fahr. The fact being that this temperature is not reached in half dozen of the deepest mines in England. He says, again—"Them from the heat, were kept in a state of constant exhaustion," the from the neat, were kept in a state of constant exhaustion," in Mr. CLIVE might have learnt was not correct, if he had enquire the miners themselves. There are several causes at work probable low state of vitality which, it is readily admitted, prevais some of our mining districts, but such a temperature as that quis not one of them. Mr. CLIVE concludes his remarks by state "better ventilation was most desirable, and could very each introduced." It is by no means clear whether this refers to the price of these is a conference of the price of the be introduced." It is by no means clear whether this refers to or metal mines, for there is a curious confusion in the speech, as ported in the Times, leading anyone to believe that the honoum member supposed the conditions to be identical. Mr. KINSH following Mr. CLIVE, says—"The present system of ventilations kept up a current of air, but what was needed was a second shaft, as was in use in coal mines, to change the air completely."

If our coal mines had as many shafts or even half the number

If our coal mines had as many shafts, or even half the number shafts, as we find in the metal mines of Devon and Cornwall should not be shocked, as we are from time to time, with the distributions of life arising from the explosion of fire-damp. The trous loss of trous loss of life arising from the explosion of life-damp. Its marks given in the way of suggestions—on the use of coppertating-rods, "copper being confessedly not liable to explode," and the clothing of the "iron ladders with a slip of lead or copper, is a sandwich"—would simply excite a smile, did they not bearmed choly evidence of the dangers attendant on the attempt to legisle on any subject with such imperfect knowledge. An equal display of ignorance was shown in the remarks on the collieries, and in the contraction of the collieries. or ignorance was snown in the remarks on the collieries, and a remedial measures proposed. That the best possible intentional urged the honourable members to bring the question of Mine gislation before the House of Commons we most freely grantbelieve they have been actuated by the most earnest desire good, but we hope they will not attempt to meddle with our mines miners until they have taught themselves to avoid the curious given which they have fallen. Although both each and comes in the which they have fallen. into which they have fallen. Although both coal and copper are mixed together in the speeches on which we have felt compete to offer some remarks, we shall confine ourselves to the metalmenth which are more immediately the subject intended to be brought. consideration, as is shown by calling distinct attention to the Ref of the Metal Mines Commission.

modes of working our mines, whether for tin, copp That our modes of working our mines, whether for tin, coppered and, are defective in many respects we have again and again shows that our metal miners perish in their prime has often been the ject of our deep regrets. We have urged in the strongest large the necessity of adopting such measures as would relieve the strong many of the causes which operate to his destruction; therefore the necessity of adopting such measures as would relieve the strongest large when we recommend the postponement of the consideration of questions involved, we shall not be suspected of a desire to obest any improvements.

questions involved, we shall not be suspected of a desire we any improvements.

We will admit, at once, waiving for the present all argument, the existing conditions of things in our mines are not such as reing minds would desire, and that they can be easily improved. It are positions maintained by the speakers in the House of Committee and the such as the support of the supervision of the proved without a considerable expenditure of money. To imp the ventilation, and to alter the methods of descent to, and of as from, the depths, shafts must be cut down, and levels cols: Even the introduction of copper tamping-rods in the place of a ones would lead to a great expenditure; indeed, no single important could be introduced without a large outlay.

More than 300 mines are now at work in Devonshire and Compa and out of these there are not 20 which are, at the present is making any profit. Considerably more than one-half of the tisk copper mines are working at a loss. There are but few mines in which men have not been discharged; and in some of the men ortant districts the shareholders are nobly meeting large losses nonthly, rather than increase the misery and want which now cloud hem. From 4000 to 5000 miners have left the mining districts of Western England, and, unless the Metal Market puts on a more cheerul aspect, many mines must soon suspend operations, and the miners nust seek bread in other lands.

and aspect, many mines must soon suspend operations, and the miner's must seek bread in other lands.

The British Metal Mines are now struggling to live under such a tate of depression as we have never previously experienced. The lightest additional burden put upon them, they must be for the most art abandoned, and the land covered with want, wasted women and hildren, the fathers, where they are enabled to do so, betaking themsleves to other districts or countries where there may be some demand or the kind of labour to which they have been accustomed.

Mr. WALPOLE stated that he would "see whether some measure ould not be passed before the end of the session." Let us entreat im to see, first, whether this is a fitting time to throw any check pon the efforts which are being made to sustain our mining operations. If the HOME SECRETARY will cause independent enquiries to be made, we are certain the results which he will obtain will induce im to reconsider his promise to the House of Commons.

#### COLLIERY AND METALLIFEROUS MINES INSPECTION. [FROM A CORRESPONDENT.]

We are told that there was once an old Scotch lady, who was so mane that she would not allow her carpet to be beaten, who went to hysterics when she heard a boy who was listening to a story about donkey tell the narrator to cut his tale short, and fainted away beause a relation told her he had been killing time; and there cerainly seems to be a similar superabundance of humanity amongst he representatives of Lord Kinnairo in the House of Commons, ho are now displaying so much anxiety to create unwarrantable larm concerning the dangers to which miners are exposed, and to hrust upon those engaged in the working of mines and collieries an unount of unnecessary supervision, which in connection with other ades would never be attempted. The cause of the feeling, hower is apparent—those who would banish accidents from mines give data statements which are not true, and base their arguments upon bese false data.

data statements which are not true, and base their arguments upon nese false data.

Placing assertion and fact side by side, the variation will be at once en. Lord Elcho countenances the statement that one Inspector has 00 mines under his inspection, which is simply untrue. Had he taken he home Secretary as his authority, instead of the bare assertion the deputation that waited on that gentleman, he could have astained that no Inspector has more than 500 (the actual number is use hlower) under his inspection. Lord Elcho asserts, on the autority of Mr. MATTHEWS, that the Oaks Colliery has but two shafts, upoast and a downcast, close together. This is also untrue. The ks Colliery has three shafts, two downcasts close to each other, and an upcast at a considerable distance from them. Mr. KINNAIRD serts that the miners are subjected to evils that could be removed ith little trouble. An isolated case may occur in which an accigerts that the inners are subjected case may occur in which an acci-int may result from reckless management, but very few instances uld be found in which any suggestion calculated to secure increased

m Sh

he let

HEET s at ields, n So

The

as refered. The

ont may result from recelless management, but very tew instances suld be found in which any suggestion calculated to secure increased fety to life and limb is neglected or rejected as unworthy of adopon, if it prove upon practical trial to have anything to recommend Mr. Kinnairo asserts that the terrible calamity at the Oaks Pit ould not have occurred had Ansell's fire-damp indicator been used, hich, if not absolutely untrue, is, to use the mildest term, dangersly inaccurate. In almost every statement made by Mr. Clive, by fr. Kinnairo, and by Lord Elcho, not wholly without foundaton, there is so much exaggeration that it is calculated to lead to lise conclusions; yet it is evident, from the ingenuous manner in hich the statements are made, that there was no intention to exagerate, but that the honourable gentlemen have been themselves misd by those who have pretended to furnish them with facts.

The feeling of the coalowners generally towards Mr. Ansell's firempi indicator was well reflected by Mr. Liddell. When he said that here was no indisposition on the part of coalowners to adopt it, but at the instrument was a most delicate and complicated piece of maninery, and it was exceedingly doubtful whether it was adapted for eordinary wear and tear of coal mines. It is ev dent that in his ensavour to do Mr. Ansell excessive service Mr. Kinnaird has done in a positive injustice, by claiming for his indicator powers which it is the service of the service of the coal time for it. Thus Mr. Kinnaird has done in the coal mines.

m a positive injustice, by claiming for his indicator powers which en its inventor does not claim for it. Thus Mr. KINNAIRD states at the instrument will register the state of the atmosphere in a mine, hich is not the fact. It will sometimes indicate that sufficient gas hich is not the fact. It will sometimes indicate that sufficient gas as been present to cause danger, but it is precisely of the value of thermometer tube containing the registering needle for maximum mperature without the mercury or its equivalent to place the needle position. Twelve months ago Mr. ANSELL had never been in a biliery in his life; and since he has seen the interior of a mine he as discovered the undesirability of relying upon any one of his inditors, and consequently proposes to use two distinct instruments side 7 side; and, as if to confirm by anticipation Mr. LIDDELL's remarks to the delicacy of the indicator, he states that these two instruents (one to indicate sudden and the other slow accumulations) are be placed in pigeon-holes, east in the iron props used to support the ents (one to indicate sudden and the other slow accumulations) are be placed in pigeon-holes, cast in the iron props used to support the sof. Iron props are only exceptionally used in coal mines, and hose suited for the reception of Mr. Ansell's indicator would be of ansiderably less strength, weight for weight of material, than props mweakened by pigeon-holes. In no instance has the name of an enneer or other person practically connected with collieries been published as certifying the practical value of the instrument, two classes a persons only being advocates of its adoption—those who are unsumined with mines, and these who have not seen or expanined. uainted with mines, and those who have not seen or examined

to indicator.

To turn to metalliferous mines, Mr. KINNAIRD complains that the iners engaged in them suffer through wearing damp clothes, sud-in alternations of temperature, climbing ladders, and so on; and the noble Chairman of the recent Commission (Lord Kinnairo) tually went through the ordeal of descending a mine, he has been abled to create the same feeling of combined terror and pity in the inds of his friends as his first visit to a mine instilled into his own. he dangers of metalliferous miners are infinitely fewer than those which the work man in most other trades are accessed as may readily he dangers of metalliferous miners are infinitely fewer than those which the workmen in most other trades are exposed, as may readily a proved by a reference to the number of deaths per annum per 1000 orkmen employed, yet it is thought to impose an amount of interrence upon the miner, from which all others are exempt. A Bill ill, no doubt, be brought forward during the present session for aling with both coal and metalliferous mines, but it is to be hoped at whatever may be proposed, the knowledge and experience of ose connected with our mining industries will be preferred to the commendations of those whose pseudo-humanity is their only guide.

MANUFACTURE OF IRON AND STEEL .-- An invention, of which the s been patented by Mr. John Calvert, of the Strand; it consists entially of crystallising the graphite, which he states to be pre-t in the cells of iron and steel, or of replacing such graphite by on. It appears that for nearly 14 years the inventor has been enaged in researches concerning the structure of iron and steel, which ave led to the discovery of some important facts, such as the cleansg property of oxygen by the ancient Japanese method of decaronisation at a high temperature and his own discovery. onisation at a high temperature, and his own discovery, in 1853, by ringing the particles of iron in contact with oxygen at a low tempe-ature. At the same time he also put forth his theory of the cellular are. At the same time he also partor in his arriver in many steels in acture of iron, and showed the presence of carbon in many steels in acture of graphite from acid soluincurred fron, and showed the presence of carbon in many steels in technical division, by the precipitation of graphite from acid solution of various steels. Since that date Mr. CALVERT has devoted such time, and at a great experimental cost has made certain very mportant scientific discoveries. After having determined the cellar structure of iron in the various stages of collapse in the several conditions of manufacture, he proceeded to investigate the contact of the cell, and in the course of these investigations facts of the givest value have been clicited. He discovered that the harder the hest value have been elicited. He discovered that the harder the ostance occupying the cells the stronger the steel, and that, although a hard slags of titanium occupying the cells formed a very ordiary steel, yet there were much more valuable and important subances, which, by giving greater rigidity to the mass, were of the ut-lost importance in its manufacture, Silicon in a crystallised state glum.

made a very fair steel; boron in a crystallised state a still better article; but carbon in its crystallised state (diamond) the strongest and best class that could be produced. During these investigations several thousand samples of steel and iron have been carefully eximined, and all found to be more or less choked with soft impurities; much may be, therefore, expected from these discoveries in increasing the value, quality, and strength of iron and steel.

EXPORTS OF RAILWAY IRON.—The year has opened with feeble results as regards the exports of railway iron, only 17,944 tons having been exported in January, as compared with 30,367 tons in January, 1865. The exports declined to British India, Australia, and other parts of the world; and the decline observable in the general total would have been much more marked but for rather considerable shipments made to the United States. Although the demand for our railway iron fell off last year from Sweden, France, Spain, Brazil, Chili, and other countries, there was a large and solid increase in the enquiry from Russia, Prussia, the United States, British America, British India, and Australia. The result was that the total exports of the year footed up to 498,595 tons, the United States, British America, British India, and Australia. The result was that the total exports of the year footed up to 498,595 tons, as compared with 434,300 tons in 1865, 408,215 tons in 1864, 446,440 tons in 1863, 400,765 tons in 1862, 377,565 tons in 1861, 453,445 tons in 1860, 528,927 tons in 1869, 433,250 tons in 1858, and 457,660 tons in 1857. It cannot be said that this is a branch of the export iron trade which is making much progress. The value of the railway iron exported in 1866 was 4,166,4194., as compared with 3,541,2964 in 1865, 3,305,0864 in 1864, 3,278,3044 in 1863, 2,817,8774 in 1862, 2,906,3594 in 1861, 3,408,7594 in 1860, 4,124,2084 in 1859, 3,565,2244 in 1858, and 4,000,5154 in 1857. and 4,000,515l. in 1857.

MINERAL STATISTICS OF VICTORIA.—The Mining and Mineral Statistics of Victoria, prepared by Mr. R. BROUGH SMYTH, F.G.S., the Secretary for Mines, contains an interesting account of the condition and productiveness of the gold fields during each of the last 15 years. The average earnings of the quartz miners are represented as lower than the earnings of the alluvial miners, but this is attributed to an increase in the number of the quartz miners. The value of all the gold claims throughout the colony is estimated by the local registrars and surveyors in their reports to the Minister of Mines at 8,498,924. There were 1043 leases in force to the end of 1865, extending over 15,779 acres 1 rood 17 poles, for the working of which it was proposed to employ 3,541,870. The admirable manner in which Mr. Smyth's reports are prepared has been alluded to upon se veral former ocsasions, and that now under consideration is fully equal to any of them, and is well calculated to secure for the mining industries of the colony the attention to which they are entitled. industries of the colony the attention to which they are entitled.

#### SELECT COMMITTEE ON MINES.

SELECT COMMITTEE ON MINES.

The Select Committee on Mines met on Tuesday at the Palace of Westminster—Present, Mr. NEATE, in the chair; Mr. Woods, Mr. GRENNALL, General DUNNE, Mr. ORME FOSTER, Sir PHILIP GERTON, Mr. KINNAIRD, Mr. LIDDELL, Mr. HUSSY VIVIAN, Mr. BRUCE.

The first witness was Mr. H. HERRIES CREED, who said that in December last he went over to Beiglum to pay a visit of inspection to the coal fields of that country. The mine to which he paid most attention was the Poirter Mine, in the Charlerol district. It is 700 yards deep, and of considerable Poirter Mine, in the Charlerol district. It is 700 yards deep, and of considerable 30 of the former, from the ages of the most many of the paid most attention was the Poirter Mine, in the Charlerol district. It is 700 yards deep, and of considerable 30 of the former, from the ages of the control of the control

here. y Mr. LIDDELL.—The mines are not rated, and have no charge on them, ex-the redevance. The proprietors, however, have to pay a certain proportion

By Mr. Liddell...—The mines are not rated, and have no charge on them, except the redecance. The proprietors, however, have to pay a certain proportion to an insurance fund, to provide for the assistance of the miners in sickness and old age, and for widows and orphans. I did not see any English workmen employed in the Beigian mines.

By Gen. Dunne.—There is no legal restriction as to ages of children employed, their hours of work, or their education.

By Mr. Vivian.—The women never go down to work in the pits after marriage. They are employed in loading the wagons. Their dress is something like a loose bathing-dress. I think the miners in Beigium are a more careful people than ours in England. They do not work with the same energy as our miners.

Mr. Vivian: I have heard that the workmen at as a sort of police on themselves, and thus endangering the safety of the mine, his fellow-workmen would stab him? Do you know if there is any such feeling?—Witness: I done know. By Mr. Kinnand.—The Conselis des Prudhommes work well, because in Beigium they deal with individuals, and not with bodies, like the Unions in this country. It may be that the Unions have grown up here on account of the absence of any such body as the Conselis des Prudhommes in this country.

By Mr. Woods.—The strikes in this country in these days do not, as it appears to me, refer only to questions of wagos. The Conselis des Prudhommes in this country.

By Mr. Woods.—The strikes in this country in these days do not, as it appears to me, refer only to questions of wagos. The Conselis des Prudhommes deal with questions of breaches of contract; but here strikes appear to have many objects. The men here are not only dissatisted with their remuneration, but with their social position, and their lack of political power.

The men here are not only dissatisfied with their remuneration, but with their social position, and their lack of political power.

Mr. ASHWORTH, of the firm of Ashworth, Smith, and Co., Manchester, exhibited a model of Broadbent's Patent Safety Apparatus for Colliery Cages. He said it had been tried under every possible variety of circumstances, and had never failed. It was counting gradually into general use. An accident happened lately at Mr. Titus Salt's pit, near Bradford, in which the rope having happened lately at Mr. Titus Salt's pit, near Bradford, in which the rope having happened lately at Mr. Titus Salt's pit, near Bradford, in which the rope having happened lately at Mr. Titus Salt's pit, near Bradford, in which the rope having happened lately at Mr. Titus Salt's pit, near Bradford, in which the rope having happened lately at Mr. Titus Salt's pit, near Bradford, in which the rope having happened have been supplied by the lates of two near th was brought up by this invention, and the lives of two

happened lately at Mr. Titus Sait's pit, near pration, it was the only perfect safety-cage, by the invention, and the lives of two men thereby, saved.

Mr. Hussy Vivian said that, in his opinion, it was the only perfect safety-cage, and that he had ordered some of them for his pits.

Mr. WALTER WILLIAMS, jun, owner and manager of a colliery at Wednesbury Oak, near Tipton, said—i went with the previous witness to Belgium, and in most respects agreed with his testimony. He, however, made one or two matakes. For instance, there is a law in Belgium which has been in force since 1810, forbidding the employment of children under ten years of age in mines; but that is the only restriction as to their employment. The Polrier Mine is 700 yards deep, and they make the descent at one lift. There are some other mines in Belgium as deep as 1200 yards. The ventilation at Polrier is solely conducted by means of a fan, and not by exhaustion. The fan is worked by a 25-horse power engine, and the supply of air is ample. An air-shaft is sunk on one side of the main shaft, but constructed roughly, and without brick or other lining, and the air is forced down that shaft. The dip of the beds is at an angle of 46°, and the methods employed there would not be applicable to the mines in this country, where the beds are almost horizontal. They begin at the lowest depth, and work upwards. The accidents in the Belgian mines, compared with the coal raised, are 20 per cent. less than in the English pits. The deaths from explosions in 1800, 1861, and 1862 were 1-16 per 1000 in England, and 650 in Belgium. The seams being perpendicular, there is comparatively but little loss of gium.

life by falls of roof, and the men also are more cautious. Those two causes are sufficient to account for so great a difference in the number of deaths by accidents. It is only right to mention that the proportion of fatality to the amount of coal raised is considerably less now than in the three years thave mentioned. The inspection in Beigium is carried on by a considerable staff—an Engineer-in-Chief, an Inspector-feneral of Mines, three Superintendents of Districts, and under these their are sub-inspectors. There is a class of pupils from the unining colleges, youths of from 18 to 29 years of age, who visit the mines under charge of the inspectors for the purpose of learning their business. They were not allowed to interfere or to speak; they merely had permission to go down the pits and to make use of their eyes.

The CUARMAX: Mr. Dickinson, in his evidence, says that a great part of the work of inspection is done by these pupils.—WITKESS: It is no part of their duty. I cannot say what is practically the result.

or characteristics and the process of the sevence, says that a great part of their duty. I cannot say what is practically the result.

Mr. LIDBELL: Is there any delegation of the Inspector's authority to those pupils?—WITNESS: None whatever; the very reverse is rather the fact. They are there merely to learn; to look, but not to speak.

Mr. LIDBELL: So that they are not to complain of anything they see amiss, or to suggest anything?—WITNESS: Certainly not.

By Mr. GREENALL.—The miners there are as much given to smoking as in England. I do not know what punishment there is for smoking in the pit.

By Mr. WOODS.—The inspectors-in-chief are most of them educated at the colleges, though there are some who have not been. The pupils come from the colleges and occupy about the same position as pupils of viewers in England. The Belgian mine managers, I should think, get, as a rule, a more scientific education than ours.

than ours.

ter some further examination on minor points, on which the witness was repeated to make definite statements, the committee adjourned.

day was named for their next meeting.

not prepared to make defaults statement, the comultitee adjourned.
No day was named for their next meeting.

EXTINCTION OF FIRES IN COAL MINES.

At the Manchester Geological Society monthly meeting, on Tuesday, Mr. THOMAS ATHERTON read a paper reviewing the existing methods of extinguishing free in coal mines, and suggesting a new one for the consideration of the meeting. Prior to the reading of the paper Mr. DICKINSON, the Government Inspector of Coal Mines, drew the attention of the meeting to certain experiments which had been made at the Hetton Collery with reference to the testing of safety-lamps. He said that someyears ago Mr. Horsfall and himself wanted this society to institute a series of experiments as to the velocity with which it was necessary for the fire-damp to imping against a Davy lamp to cause an explosion. They were prevented making experiant of the properties of

greater tension. The cost of the apparatus would be about 1800!. The lecture was illustrated by diagrams.

Mr. GREENWELL asked Mr. Atherton if he made provision for the liberation of gas at the same time as the drawing out of the air?—Mr. Atherton said he did.——Mr. Atherton said that large quantities of carburetted hydrogen gas, because the pressure would be liberated, and he asked would there not be a danger of abother explosion?—Mr. Atherton said they could not have an explosion from an extraordinary discharge of carburetted hydrogen gas, because the pressure would be taken off.—Mr. Greenwell, said, supposing there was a very large fire, they must liberate a certain amount of fire-damp. At the time the fire was going on there was not a sufficient quantity of gas to produce an explosion; but as soon as they applied the exhausting principle they immediately increased the exudation of fire-damp from the mine, the mine being still filled, to a certain extent, with atmospheric air, and thus they would get a mixture in the mine, which, from being inexplosive before, became explosive, and thus there was the risk of another explosion—Mr. Atherron said he did not think so, because while they were operating with that machine upon the agglomerated mass, they had there a lot of indefinite gases mixed up with a certain percentage of carburetted hydrogen, and they required a very considerable volume of pure atmospheric air in order te explode. They could not, for want of atmospheric air, exhaust these gases, because the machine which had injected the atmospheric air, exhaust these gases, because the machine which had injected the atmospheric, air prevented it from acting.

Mr. DICKINSON said all of them who had had some experience of mines knew the proportion in which explosions occurred in abut-up mines where fire-damp was being given off. It sometimes happened, and sometimes \( \text{id} \) double strokes during the said of the proportion of the machine which had injected the amospheric, id not in another was 6ft. diamet

ATHERTON said that it was only a suggestion.

The CHAIRMAN thought that the plan "would have considerable effect in the early stages of fires, but would not", every effective in the old fires. When the fire got hold of the black shale it we so difficult to subdue. He gave an instance of a pit which was full of water for "welve months, and after they had pumped out the water and worked for some" ime a great mass of red-hot shale fell from the roof. It was easy to get rid of "he flame, but not of the effects of the

heated shale.—A GENTLEMAN suggested that the rise workings might have been full of air.—Mr. ATHERTON said that the heated air would surrender itself

GREENWELL said he had no doubt that Mr. Atherton's plan Mr. GREENWELL Said he had no doubt that Mr. Adherton's plans where there was fire-damp he feared that the first effect of the exhausting process would be to raise the atmosphere of the mine to the explosive point, to cause a blast, and to blow away his scaffolds. —Mr. Dickinson said it would also not when the mine was reduced to a non-explosive state by the saturation of fire-damp. —Mr. Knowles thought the effect of creating such a vacuum would be to cause a general collapse of the interior of the mine. —A Gentle Man present spoke of a circumstance of a small fire in a mine which had been put out after burning eight hours. There was an escape of gas from the goaf, which had a cooling effect on the embers.—Mr. Atherton said he did not think any objections had been brought against his plan but were capable of being answered. He had great confidence in its efficacy for the purpose for which it was intended. —A vote of thanks to Mr. Atherton and the Chairman terminated the proceedings.

#### SUNLIGHT IN THE MINES.

Amongst those whose acquaintance with colliery operations, and with the interior of collieries, is limited to what they have read in with the interior or collectes, is limited to what they have read in books, it is customary to regard an explosion as the most lamentable casuality to which the collier is exposed; yet an examination of the statistics annually supplied by the Government Inspectors of Coal Mines (and the abstracts published in the Mining Journal of March 16 may be taken as representing the fair average) will show that the deaths resulting from explosions are but few in comparison with those form other classes of seciletic although the circumstance of explosions. from other classes of accidents, although the circumstance of explo from other classes of accidents, although the circumstance of explosions usually killing the miners wholesale gives them a sensational character, whilst no thought is taken of the far more frequent accidents by which the men are killed singly. Taking the average of the last two years, it appears that for every death resulting from explosion three deaths occurred through falls of roof, and that the deaths resulting from accidents in shafts were considerably more numerous than those caused by explosions; hence it follows that quite as much attention should be paid to "falls" and "shaft accidents" as to explosions, if it be desired to reduce the number of colliery fatalities explosions, if it be desired to reduce the number of colliery fatalities to the minimum.

That a large number of the deaths from falls of roof, as well as some of those classified as shaft accidents, occur through insufficient knowledge of the faults and irregularities of the strata is beyond question, and it has occurred to Mr. LARKIN, of Clerkenwell, whose question, and it has occurred to Mr. LARKIN, of Clerkenwell, whose beautiful nagnesium lamp attracted so much attention at the last meeting of the British Association, that if a reliable and portable lamp could be placed in the hands of the chief underground manager of a colliery, which should enable him to make himself thoroughly acquainted with the most minute details of the structure of the roof, and of any changes which may from time to time take place, an important end would be gained; he has, therefore, constructed a handportant end would be gained; he has, therefore, constructed a hand-lamp, not much heavier than an ordinary Davy, capable of producing the magnesium light with certainty and regularity, and containing no clockwork or other mechanical arrangements to get out of order. The new lamp is very compact, and throws a most brilliant light.

The new lamp is very compact, and throws a most brilliant light. A spirit-flame is used to ignite the magnesium, and as the flow of the powder can be instantly stopped and recommenced, there is every facility for securing economy, by using the light only during the precise period when it is required. The magnesium is used in the shape of granulated crude metal, mixed with sand, in varying proportions, according to the volume of light required. It is necessary that the powder should be kept beyond the reach of the atmosphere, to prevent deterioration, but this presents no difficulty to the consumer, as it is supplied in suitable cases. The light is well worthy the attention of colliery managers, and is not excessively costly.

#### FOREIGN MINING AND METALLURGY.

Much satisfaction has been occasioned in Belgium by MM. de Dorlodot having obtained the contract for 7000 tons of rails, required for the Kiew and Balta Railway. The fixed and rolling plant of the line will also, it is understood, be supplied by Belgian works. On the other hand, another affair for the South of Russia has escaped the other hand, another affair for the South of Russia has escaped Belgium to the benefit of Prussian works; a small order for rollingstock has alone been retained by one of the Belgian construction workshops. Ballway enterprise is depressed at present on the Continent, as regards construction and also as regards the renewal of way. Thus the administration of the Belgian State lines was about to make comparative experiments on some miles of the way; the object of these experiments was to replace the present rails by somewhat heavier ones, the increase in the weight being rendered necessary by the development of the traffic, and also because the locamotives used have increased in size. But this renewal of way, although deemed indispensable, will be only made slowly, as ready money is just now not very plentiful with the administration of the lines in question. Upon the whole, it must be said that affairs are still in a languishing state in Belgiam, both as regards by and in iron and railway plant. The Belgian coalowners are endeavouring to propagate and sustain the conclusion that prices will be maintained at their present rate throughout 1867. They have however, to compete with the English on the French littorial and in the Belgian ports; the basins of Valenciennes and the Passdenients of the East; and the workings of the Ruhr, which, although somewhat remote, have the hardshood to furnish combustible at the very doors of the Balmatt. Against all these rivals the Belgian condowners still ind themselves strong, because the industrial activity which prevails in volves a consumption strial zone of the Sun; and the workings of the Runr, and the workings of the Runr, and the workings of the Runr, and the serious the Belgian coalowners still find themselve a distance in the serious the Belgian coalowners still find themselve industrial activity which prevails involves a consumption as Belgian extraction cannot meet. We may note the far is an accumulation of fine coal along the Sambre, because of briquettes have been reduced to this extremity because three contents have been reduced to this extremity because three contents have been reduced to this extremity because three contents have been reduced to the coalons of the serious forms. have carried elsewhere continued to Montingon, e Western to England, the Orleans to Montingon, e Westernnean to St. Etlenne. Prices remain for the

esent without variation; freights are low.

At St. Dizier the market has been losing more and more animation At St. Dizier the market has been losing more and more animation of late. Charcoal-made pig is quoted at 47. 9s. 2d., and coke-made ditto, 32. 2s. to 32. 4s. per ton. Rolled iron from first-class charcoal-made pig has realised 84. 16s.; ditto from coke-made pig, 77. 12s. to 71. 16s. per ton. Special irons have made 81. to 81. 4s., and beaten ditto 104. 4s. per ton. In the Moselle district business is dull: the stock is important, and the coke question pre-occupies every mind. It has been started that the Creuzot-Works had treated for 80 locomotives for England; the affair is in course of negociation, but the announcement that the contract had been secured is premature. On the other hand, the Terrenoire foundries have sold to the Paris, Lyons, and Mediterranean Railway Company has also ordered 2000 tons of Bessemer rails at the Terrenoire Works, at 91. 16s, per ton at the works. The same company has given an order to the Fourchambault Works for 300 turnables, at 14f. 8s. per ton. It has also given an order to the Fourchambault Works for a very large number of switch bolts, at 13f. 16s, per ton. These rates show a reduction from previously reported transactions. It appears from a discussion which has just taken place in the Corps Legislatif that the rates charged for the conveyance of coal by the French railway companies vary greatly. Thus the rates of the Paris, Lyons, and Mediterranean are double those of the Eastern and the Northern, the development of collectives situated in the heart of France being thus checked. The situation of the French coal trade remains nearly the same as has been stated previously. Buvers cannot decide, with it takes place they will profit by it, and will have lost nothing by waiting; in the contrary case, they will be able to make purchases on the same terms as at present, as an advance is not probable. The coal-workers have, on the contrary, everything to fear. A certain complication in the aspect of political affairs in Europe, the constant efforts of German competition, the continuance of industrial stagnation, and a bad crop of bestroot are all unfortunate circumstances, which would necessarily occasion a fall in prices, and a contrary movement is improbable. The singular state of things which prevails seems likely to continue; it cannot last indefinitely, but it would be difficult to determine how matters are likely to end. Prices remain for the present unchanged.

At Hayre, Chilian conner, has been to a great extent, neglected.

rs are likely to end. Prices remain for the present unchanged.

At Havre, Chilian copper has been, to a great extent, neglected, and the reports as to that market indicate no important transaction during the past few days; the article has closed quietly at 751, to 751, 10s, per ton for disposable, and 761, per ton for lots to be delivered in April and May. At Marselles copper has been in little demand, and prices have been feeble. Paris advices note a similar state of things; English has made 80.; Chillan, 761.; and Corocoro mineral, 801, per ton. There is no important change to note in the tone of the German markets, a slight revival, which had been observed, having disappeared on the receipt of later advices from England; some orders have been received on the Hamburg market, but could not be accepted, in consequence of the low prices offered. A letter from Amsterdam says:—The statistical data, which we have to give you with regard to tin, are rather interesting, and are calculated to justify the good position of the article at the present time. The reduction in the artivals was anticipated, and so long since as September we referred to this circumstances as calculated sooner or later to exercise its influence. However moderate may have been the quotation of 461s., which generally characterised the public sale of Sept. 28, it did not meet with a favourable reception abroad. The market soon after became feeble, and the arrangements of consumers were such that some weeks passed sefore a better tendency became decivily aparent. The market slowly hardened, and during October a quotation of 46½ fs. was not exceeded. After this date, however, the market revived, and some speculative purchases effected on and the reports as to that market indicate no important transaction

a large scale caused prices to rise to a rate which seemed to be more in harmony with the true position of the article. There were from time to time periods of quiet, but they were only temporary, and the market continually regained an upward tendency, which acquired a further development when the total quantity likely to be offered for sale, March 28, became known. We now quote the article at 55½ fis. to 55½ fis. Consumption has followed with a slow step the movements which have appeared on the controlling markets; but it was, nevertheless, obliged to follow them, as it had nowhere stocks of any particular importance. These stocks are now exhausted, consumption proceeding steadily hitherto, and having only purchased to meet the most pressing wants. If the public sale passes off with moderate prices, operations will, no doubt, he attended with satisfactory results. The principal markets have shown during the last few days numerous transactions in this; but, operators have shown all-position to restrict purchases to some extent, as they await the result of the Amsterdam public sale, which must exercise a certain influence on the future position of the article. A certain animation has prevailed on the Parls market in consequence of the firminess of the English and Dutch markets; Banca has closed firminy at 984, Strata at 944, and English at 904. In Germany the article is sought after, and is dealt in currently at previous rates. The position of the lead markets has not improved, and it does not appear probable that it will, so long as speculation holds aloof; the domand continues quiet, and the article finds no other outlet than in purchases to meet the daily requirements of consumption; there is no change to report the prices. Zinc has been firm at Parls; rough Silesian has made 234, and since from other sources 224, 128, per ton; some transactions have been noted on these terms. At Breslau, notwithstanding the little importance of the domand, zlue has been very well sustained. The reports received from Hamburg

opinion remains favourable to the arricle.

A company of English capitalists is said to be on the point of purchasing considerable mines of ironstone in the Sieg district, and in Nassau; it is also proposed, it is stated, to establish near Deutz some Nassau; it is also proposed, it is stated, to establish near Deutz some very large blast-furnaces. The rough iron obtained will not, however, be worked up in the district, but will be sent to England, to be employed there in the fabrication of steel, a circumstance which shows that the from is considered to be of very superior quality. Belgium is receiving now excellent coal from Westphalia. The basin of Westphalia is so extensive that, according to the calculations of Herr Kuper, it contains 200,000,000 tons of eal; at present the extraction is only 50,000 tons annually. A judgment of the Brussels Tribunal of Commerce declares the Belgian General Railway Plant Company bankrupt. The quantity of gas sold by the Belgian General Company for Lighting and Heating by Gas amounted, as regards the company's works at Prague, Tournal, Louvain, Charlerot, Marchlenne-au-Pont, Chennitz, Catana, Rimin, Sienna, and Fourmies, to 127,671,298 English cubic feet during Sept., Oct., Nov., and Dec., 1866, and Jan. and Feb., 1867. The corresponding sale of 1855-6 was 112,822,497 English cubic feet, showing an advance of 14,818,801 English cubic feet in 1866-7. The company has also recently acquired some works in the North of France—at Arras, Bergues, Cambrai, Dunkerque, St. Omer, Valenciennes, and Anzin—and these sold in Jan. and Feb. 24,977,628 English cubic feet of gas.

#### REPORT FROM SCOTLAND.

MARCH 27.—In the case of Connal and Co. v. Daunt and others, the 48,000 tons of pig, which is the subject of litigation, has been ordered to be sold by Lord Mure, at sight of an accountant here, in such quantities and at such times as he may see fit, the price to be not less than 51s. per ton, and the money to be lodged in the National Bank of Scotland, to await future orders. When this became known the price of pig-iron slightly rallied, and a trifling advance took place. As this iron may be held for some time, and as it is not to be sold under 51s, per ton, that bugbear has been taken out of the way, and der 51s. per ton, that bugbear has been taken out of the way, and the transactions in this market will be unaffected by this spectre for the future. There is little demand for pigs this week, and shipments have declined 2000 tons, 11,520 tons being the quantity for this week, against 13,590 tons in the corresponding week of last year; still there is an increase on the year of fully 12,000 tons. The market to-day was weaker, and 51s, 74d, cash was accepted, closing buyers; sellers, 51s. 9d. A meeting of ironmasters was held here to-day, when it was resolved that three-fourths, instead of two-thirds, of the furnaces chould be put into blast on Monday. Manufactured iron keepsquiet, and the spring is passing away without realising the hopes of makers. To add to the prevailing unsatisfactoriness, we have had this week a cargo of Welsh bars brought into the Clyde, which are offered at from 5s. to 7s. 6d. per ton under the low quotations current here. This is embittering unatters, and is to be traced to the want of orders in all the iron manufacturing districts, both north and south. Prices here are at their lowest, and if they are to be further reduced it will have to be a question with makers how much they are prepared to lose. There is a feeling here that another reduction of wages mus be made in order to allow Scotch makers to keep their own market. The Woodneuk Malleable Ironworks, near Coatbridge, are to be sold by public sale early next month. They belonged to a bankrupt concern, and have machinery and all appliances for producing 500 tons of finished iron per week.

Coals are not improving in demand with the return of fine weather, and price are being reduced. Of the shipments for the weekers There is a feeling here that another reduction of wages mus be made

and prices are being reduced. Of the shipments for the week— 18,030 tons—the foreign begins to prevail over the coastwise, and the aggregate quantity nearly balances with that of last year—18,805 tons. The colliers' wages have been reduced in the Rutherglen district another 6d. a day, which brings them down to 4s.; but, at the instigation of the Union, they have preferred to "strike" rather than accept the reduction. As the stocks are pretty heavy, and as the pits are nearly all owned by sale coalmasters, they will be able to allow the men three months play, if they choose to accept of it. The reduction is confined to this district in the meantime, but it will have to be rescribed to in other districts, as the trade is so decreased. to be resorted to in other districts, as the trade is so depressed.

#### REPORT FROM NORTHUMBERLAND AND DURHAM.

MARCH 28.—The Coal Trade generally may still be described as cosperous, but from various causes many of the collieries have not sen fully employed of late. The weather during the greater part the present year has been of such a character as to interfere seriof the present year has been of such a character as to interfere seri-ously with the shipping trading in the north-eastern ports, and com-merce generally has suffered in consequence. The position of the Iron Trade has also caused the demand for coke and some kinds of Iron Trade has also caused the demand for coke and some kinds of coal to be considerably flatter than it otherwise would have been. But in spite of these drawbacks, the general prospect for the coal and coke trades is good. The weather has moderated considerably, and, in consequence, a large fleet has arrived, and some vessels of heavy tonnage are among the number. A revival of the general trade of the district may, therefore, be expected to take place.

With respect to the iron trade, the reductions lately proposed have been acceded to by the men, and more life may now be expected to be infused into this trade, which has been totally devoid of spirit for a very long period; the rate of wages has been so high that manu-

a very long period; the rate of wages has been so high that manufacturers could not take orders with a prospect of making a fair profit, but orders will now be more eagerly looked after, and a revival in this trade, which will also cause a general revival of all the trades in the North, is now not only anxiously hoped for, but also confidently

expected to take place.

The chemical trades on the Tyne continue to prosper, and several new works are in progress, besides the extension of some of the old ones. Newworks are in course of erection at Jarrow and other places, and the consumption of ores of various kinds are, of course, on the increase, as coal suitable for the purposes of chemical manufactures is abundant and cheap here, thus trade may be expected to expand to a very great extent, and the importation of copper ore, sulphur ore, manganese, &c., will, therefore, be largely increased; indeed the quantums of these ores imported in 1866 exceeded very much those imported in the year preceding. The manganese ore imported into the Tyne in 1866 was upwards of 16,000 tons, of sulphur ore 75,257 tons. the sulphur ore imported in 1865 having been little more than half that quantity. The copper and copper ore imported in 1866 was 2823 tons. This is quite an insignificant amount, and this trade may also be expected to greatly increase and expand. At present a considerable quantity of copper and brass is brought by rail from the Midland and Southern districts; indeed, the manufacture of tubes for locomotive boilers, and other purposes, is only carried on here to

for locomotive boilers, and other purposes, is only carried on here to a limited extent, these tubes being brought from Birmingham and other places ready for use. The ores mentioned above are mainly got from Drontheim, Spain, and Portugal, and a few other places.

The well-known alkali business of the Messrs. Allhusen is henceforth to be carried on as a limited liability partnership. The whole of the promoters are members of Mr. Allhusen's family, and the shares are all taken by the promoters. The object of the undertaking is described as the manufacture and sale of alkali, soda, blacking powder, and all or any other chemical products; the purchase and sale of all or any goods, articles, or materials in any way connected with, or incidental to, such manufacture and sale; the acquisition, sub-holding, leasing, working, and carrying on any mines of copper, coal, clay, or other metals, metallic substances and minerals, and manufacturing the products thereof, &c.

It is lamentable to find that another strike has taken place of the

It is lamentable to find that another strike has taken place of the Ironworkers at Jarrow. It was fully expected that an agreement had been made by the men there of a similar kind to that made at all the other works in the district; but at the last moment the engineem and fremen, &c., at the engine

used for driving the mills refused to accept the reduction, and thus the was of the millmen and puddlers also have been thrown out, so that they are one more on strke; it is, however, hoped that a compromise of some sore will show

#### REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE, MARCH 28.—The Preliminary Meeting of the South Staffordshir Ironmaster's Association has been held to-day at Birmingham, Lieut. Col. Barrows, President for the year, took the chair. As was anticipated, no change was made in the trade list of prices, which continue at 71, 10s. for bars, 81, 10s. for hoops, and 92, for plates, at the works. It is to be feared that very few get these rates. The demand during the week has been small. The whole trade has for some time been on a hand-to-mouth system. Small orders are the almost using the week has been small. during the week has been small. Ine whole trade has for some time been on a hand-to-mouth system. Small orders are the almost universal rule, not only in manufactured, but equally in pig-iron. People buy a few tons to go on with, the delivery of which is pressed to be immediate, and towards the end of the month the orders almost cease. It is not improbable that now the orders will apply to another cease. It is not improbable that now us month an increase will be experienced. month an increase will be experienced. There are signs of recovery in the Australian trade, consequent on the excellent harvest they have had in that colony.

Prof. W. S. Jevons, of Owen's College, Manchester, has been visit. Prof. W. S. Jevons, of Owen's College, Manchester, has been visiting South Staffordshire, with a view, it is understood, to the preparation of a new edition of his well-known and much-read work entitled "The Coal Question." On Monday evening he delivered a lecture at the Birmingham Midland Institute, on "The Probable Exhaustion of Coal in South Staffordshire." Mr. Jevons takes, to some extent what has been termed by its opponents the alarmist view of the exhaustion of the supply of coal, and he finds in South Staffordshire. haustion of the supply of coal, and he finds in South Staffordshire a prominent illustration of the working out of resources, which he regards as typical of what may be apprehended for the country generally. In describing the actual position of the South Staffordship

nerally. In describing the actual position of the South Staffordshin coal supply, Mr. Jevons said:—

The unworked portion of the eastern part, near Dudley, was 1160 acres, allowing 20,000 tons per acre; and supposing it to be, in 1860, 23,200,000 tons, glving 20,000 tons per acremate boding drawn to be 520,000 tons per annum, the probable duration was only 42 years. In the western part there were 2785 acres, which allowed by per acre make 55,700,000 tons, rate of working 1,500,000 tons per annum would make the probable duration of the supply 37 years, supposing the demand consumption to remain as it was. It might be fairly said that in half, century the seam of coal in South Staffordshire—the most perfect store of fee that had ever been known—would be practically exhausted; there would bey little of it left.

Then came the question of the coal which he are well as others in the coal which he coal which he coal wh

Then came the question of the coal which he, as well as others, be lieved existed under the Permian strata. He referred to the effort of Mr. Dawes, at Hales Owen, to discover these supplies with cons of Mr. Dawes, at Hales Owen, to discover these supplies with considerable sympathy, but expressed doubts whether private enterprise was competent to make the necessary borings which should satisfactorily determine the depths at which coal beyond the present limit of the coal field could be got, and he was of opinion that the Government ought to take a share of the risks of such experiments, and in proportion to the success to charge the landowners with the cost of ascertaining the existence of coal at workable depths. Criticising the calculations of Mr. Hussey Vivian, Mr. Jevons said that in establishing the cost of deep sinking, as compared with the coal to be get the calculations of Mr. Hussey Vivian, Mr. Jevons said that in estimating the cost of deep sinking, as compared with the coal to begg that gentleman overlooked the interest on the expenditure, and also exaggerated the quantity that could be raised by a single shaft, as gave his opinion that the increased cost would be little short of 2s. 3g gave his opinion that the rise of the iron trade of South Stafford. per ton. He noticed that the rise of the iron trade of South Staffordshire was contemporaneous with the advance of this country, and also observed that Birmingham had contributed, by the improvement of the steam-engine, another great lever by which England and the whole world had been raised. But he then showed that of lab years the manufacture of pig-iron in South Staffordshire had be been increasing, and gave it as his opinion that it was hardly to be desired that the district should continue the manufacture of crule iron. It could apply its coal to better purposes, and it was forther advantage of Birmingham that the manufacture of iron should no progress in that district, as its supplies of coal were necessary fe the other manufactures. He urged that the district must look fe future advances to increase in the excellence of its productions, man in the produce of great quantities at a cheap rate, and with this view in every way promote a superior education for the growing of the town and district.

must in every way promote a superior education for the growing youth of the town and district.

Mr. Davis, stipendiary magistrate of the Pottery District, has give a decision of some importance. Mr. Babes, a colliery proprietor and ironnase was fixed by the control of the Mines Inspection Act. A warrant distress to levy for the amount was issued, to which the return of "no effect" was made, Mr. Babes having failed, and executed a deed of composition mile the Bankruptcy Act. Thereupon a warrant of commitment was issued agains Mr. Babes, and the amount of the fine was then paid to the superintendent oplice, under the protest that the certificate of the registration of the deed oncrated him from liability. Mr. Davis had no doubt that this plea was like but had consulted the Tresury and the Home Secretary, who took the opinise of the Attorney and Solicitor Generals. These distinguished legal authorities confirmed his view, so that the amount of the fine would be applied accordings law. Mr. Davis, at the same time, submitted a question as to the disposit the fines. By the Mines Inspection Act pomalities are offerced to be "applied, and, subject to such direction, penalities are to be paid into the receipt of life Majesty's Exchequer, in such manner as the Commissioners of Her Majesty. Treasury may direct." But by the prior Act, exhibising stipendiary judge, it was laid down that fines imposed by such justice, "which are, or shall be, wany Act limited and made payable to Her Majesty, or to any person whomsomessive and except the informer, who shall such for the same, or any party aggrice, shall, notwithstanding anything in such Act contained, he recovered for, an adjudged to be paid to, the treasurer, to be appointed under this Act," with a exception as to revenue prosecutions. The question was, did the provisions of the subsequent Mines Inspection Act override this latter? The Attorney-Genral thought they did; the Solicitor-General, on the contrary, though the genral provision of the Stipendiary Justice Act was to b

Brierley Hill Police Court, Mr. Stipendiary Spooner, inpas At the Briefley Hill Police Court, Mr. Stipendiary Spooner, it ing sentence upon John Bellinson, engineer (whose neglect to lower the test the tackle before tetting down men resulted in the death of two ce said that the result of the neglect was that two men had been suddenly in a horrible manner, and two families thrown on the world. The fine which the law allowed him to inflict, was a farce, inasmuch as men wou that sum, and return to their careless habits. An example was necessar the defendant would have to supply that example. He (the Stipeudiary) however, take into consideration the excellent character given to the deby Mr. Whitehouse, and instead of inflicting the full punishment—three minprisonment, with hard labour—he should sentence him to six weeks's somment, with hard labour—he should sentence him to six weeks's

unprisonment, with hard labour—he should sentence him to six weeks imposument, with hard labour.

Mr. Hooper held an inquest at Old Hill, near Dudley, on Saturia, as to the death of James Guest, a miner, who was killed in a coal mine belowing to Lord Dudley, at the Sait Wells on the previous Tuesday, by a fail of with the miners call a "thing," which is an interposed mass differing from, and resilisconnected with in structure, the mass of the stratum in which it was foul and which is peculiarly apt to give way. The place where the deceased was work was 24 feet wide and 10 ft. high.—Mr. Baker, the Inspector of Mine, we present, and, in answer to him, the doggy of the pit stated that the plee without 5 tons weight. It fell from the solid. He thought there was scarcely refor timbering. There was no timber in the opening.—Samuel Weaver, mine that the knew of the "thing," but did not think there was any neessife or timbering. The pit looked safe.—Mr. Baker recommended the plentiful is of timber, and thought there was sufficient room for a tree in the place whe he deceased was at work.—The Coroner hoped the Inspector's remarks would be teened to the transfer of the coroner hoped the Inspector's remarks would be teened to the coroner hoped the Inspector's remarks would be teened to the coroner hoped the Inspector's remarks would be teened to the coroner hoped the Inspector's remarks would be the deceased was at work.—The Coroner hoped the Inspector's remarks would be teened to the coroner hoped the Inspector's remarks would be teened to the coroner hoped the Inspector's remarks would be teened to the coroner hoped the Inspector's remarks would be teened to the coroner hoped the Inspector's remarks would be teened to the coroner hoped the Inspector's remarks would be teened to the coroner hoped the Inspector's remarks would be teened to the coroner hoped the Inspector's remarks would be teened to the coroner hoped the Inspector of the coroner hoped the Inspector of the coroner hoped the Inspector of the coroner hoped t

THE COAL SEAMS OF ENGLAND.—The Rev. P. B. Brodie, M.A. livered his third and concluding lecture on "The Geology of Warwicks the Drift, the Lias, and the Coal Field"—at the Midland Institute, on Me He countemenced by observing that he should confine himself to the hist the Carboniferous series. Although the coal field in Warwickshire was of interesting character, it was not very large in extent, and in order to give the general history and character of the coal series he should have to p more distant measures. The carboniferous series consisted for the most p sandstone, clay, hard and indurated clay, ironstone, and various shales, rev. gentleman pointed out upon the man the various coal fields of Eng calling attention to their relative size. Compared with other fields, that of wickshire round Coventry, Nuncaton, and Atherstone was not only limite the coal itself was of inferior quality, and you'ld soon be worked out measures also contained many faults, or great dislocations in the strata, by the beds are thrown up and down and mingled together. The coal strates ometimes intersected by dykes, of which there are an incalculable number the Coventry district, rendering it still more interesting. These upheaval the coal after it was formed, and spread themselves in mas shale and other beds which surrounded the coal strata. The fecturer the merated some of the varieties of coal, the best of which is composed of the and comes mostly from Durham and Northumberiand. The total high the coal measures includes not only the veins of coal which are workable, by whole beds of sandstone, clay beds, &c., which are classed under the same. The thickness of the coal series in the Coventry district is nearly 3000 ft. (f. in other coal series, the mountain lineatone (which is generally included coarboniferous series) were included, the thickness would in some pile in the coal series in the Coventry district is nearly 3000 ft. (f. in other coal series, the mountain lineatone (which is generally included coal measures includes. On the THE COAL SEAMS OF ENGLAND .- The Rev. P. B. Brodie, M.A. & RE. dshire

at the

nother

ied. Every bed of coal was simply a bed of plants which had be chemical changes and combinations. These coal strata con-insects, but no evidence of land animals, which, however, it was ey occupied. Every bed of coal was simply a bed of plants which had one greab chemical changes and combinations. These coal strata commins of insects, but no evidence of land animals, which, however, it was possible did exist during the period in quesion, although the air might been highly charged with carbon, and in a very impure state, for he could think that there must have been some order of animals coval with the and insects. Fossil shells and remains of predactous fishes, saurians of type, &c., are found. It has been supposed that at the time the coal was there were separate islands in what now forms continuous lands, and bey were formed by the depression of the great mountain limestone coral and that the coal series were deposited in the hollows. Some persons think ere more continuous. Indeed, it appeared that some of the coal fields are now disconnected must at one time have been a continuous bed, and her been denuded. He believed both theories were correct according to renul localities. The climate was then probably moist and warm, such tof the Brazils and South American countries, which greatly favoured with of succulent and other plants. The lecturer then proceeded to speak probable duration of the coal beds. He did not think the Staffordshup omiting consumption, and deprecated the enormous waste which is every visible. He was not at all alarmed at the great question—how long will a last? He quite believed that all east it would last solve and in supthis opinion pointed to the great South Wales coal field, which at present ly touched.

this solution in the present of the State of State

#### REPORT FROM DERBYSHIRE AND YORKSHIRE.

REPORT FROM DERBYSHIRE AND YORKSHIRE,

ARCH 28.—There is not the slightest alteration to notice in the
of the Iron and Coal Trades of Derbyshire. At Staveley, agreeto a promise made some time since, the working hours of all
ons connected with the company's collieries has been reduced,
to a promise made some time since, the working hours of all
ons connected with the company's collieries has been reduced,
to a promise made some time since, the working hours of all
ons connected with the company's collieries has been reduced,
to a two of the largest tironworks has terminated. Most of the
tranches of the Steel Trade are only moderately well supplied with orders,
makers of Besemer, and cranks, axles; and rails are doing a good busiAt Penisone, in particular, there is the greatest activity. The various
that the steel the stee

xtension of the Midland and other railways is likely to lead tension of the Midliand and other railways is likely to lead dig out of several new collieries, amongst others a large place is extended at once at Carlton, on the ostate of Lord Wharneliffe, and ar to Wath. At the new pit which has been sunk in Barnsley in continuity of the shaft has been sunk to the depth of 150 yards, as far as the scam, and by the end of the week it is expected that the thick Kent be reached. It is expected that the Barnsley bod will be reached at a 9 yards in about four months. Now that the Great Eastern Railway free access to the district, there can be no doubt that the South Yorkswill be greatly increased, and the wast mineral wealth of the locality to an extent that can scarcely be anticipated.

#### REPORT FROM MONMOUTH AND SOUTH WALES.

RCH 28.—The Iron Trade of the district has not yet experienced ing like a substantial degree of improvement, and orders, upon ing like a substantial degree of improvement, and orders, upon hole, are coming in slowly. It is well known that very many a railway companies require supplies to replace their daily ag-out rolling stock, and also for what may be termed indisble new works, but the insane and senseless panic which has debenture-holders renders directors doubly cautious in giving cir orders. As might be expected, this has had its influence requirements of wagon-works and other branches affiliated to ys, and where 100 tons of iron formerly went, it is a point now are a transaction for 20 tons. On American account there are il engagements for railway iron in course of execution, but as I last week, it is rather difficult to give a reliable opinion as to he future of the trade with that country will be. The advices New York are somewhat contradictory, but all are agreed that quirements of the Southern States will be large, once some-like regularly constituted Governments are established in these cess. Railway extensions are in contemplation on the Continuation.

like regularly constituted Governments are established in these nees. Railway extensions are in contemplation on the Continand some of the iron required will, no doubt, be obtained from country, although the Rhenish provinces and Belgium are being keen competitors. For pigs the enquiry is dull. Tin-Plates and a fair export sale, and home requirements are large. Invourable change is to be recorded in the weather, and the ty of tonnage which has so long prevalled in the Coal Trade is likely to pass away. Already a good number of vossels have arrived, many of them chartered, and the result cannot fail to be far more regular employment colleries. On continental account engagements are being entered into more freedom, and the mail packet companies are taking about the same lift as in January and February. House coal proprietors are doing an initial business, and since the change of weather the coasting trade is sing to move. For coke there is a limited demand.

Treforest Tin-Plate Works are now in active operation, and coal mills will be shortly at work. The starting of this establishment has

mills will be shortly at work. The starting of this establishment has an of giving employment to a large number of hands, and the neigh-Treforest and Pontypridd wears a more active aspect than for many

Gethin Fund Committee fifth annual meeting was held at to on Wednesday (Mr. J. D. Thomas in the chair). The report showed Gethin Fund Committee fifth annual meeting was held at r. on Wednesday (Mr. J. D. Thomas in the chair). The report showed relief paid, and other expenses incurred during the year ending Feb. 14 ounted to Sast. 18a. 3d., and the credit balance was 4750d. In India stock, 14a. 2d. at the bank, making a total of 48081, 14a. 2d. It was stated that computation and by the secretary (Mr. Stephens), the fund will last to sell another 250d. worth of India stock, in order to meet the payments to sell another 250d. worth of India stock, in order to meet the payments part. The weekly payments have now fallen to 10f. 10a. 6d. per deathon, in consequence of his removal to Swansea, and a cordial vote of was passed to him for the valuable ald he had given in the management med.

he workmen employed in Messrs. Richards and Glassbrook's col-shave presented the manager, Mr. A. Grey, with a splendid compass, value ss., as a testimonial of respect and esteem. A previous report it was hinted that on some portions of the a Wales section of the Great Western there was every probability that the

In progress to add a third rail, from Neath to Port Talbot, thus bringing the Vale of Neath narrow guage system into direct communication with the Briton Ferry Docks, and the important iron, copper, tin-plate, and coal works in the neighbourhood of Port Talbot, belonging principally to the Governor and Company of Copper Miners in England. The funds for carrying out this extension are, it is said, to be provided by private parties, under a special agreement with the Great Western directors.

Mr. F. French, formerly and for many years superintendent of the Great Western Wagon Works, South Wales division, has received the appointment of superintendent of the extensive wagon works of Messrs. Shackleford, Ford, and Co. (Limited), at Swansea, and entered upon active duty on Monday, Mr. French, from his practical knowledge, managerial ability, and energetic conduct, will be an acquisition to the working staff of the firm in question. Mr. French succeeds Mr. Ford, who formerly held the management.

The arrivals at Swansea include—the Elena, from Bilboa, with

French succeeds Mr. Ford, who formerly held the management.

The arrivals at Swansea include—the Elena, from Bilbon, with 540 tons of fron ore, for W. H. Tucker; the William Graham, from Hondeklip Bay, with 420 tons of copper ore, for Richardson and Co.; the Marianne, from Nice, with 1051 sacks of fead ore, 419 barrels of copper ore, and 90 tons of iron ore, &c., for H. Bath and Son; Diana, from St. Nazaire, with 100 tons of iron ore, for T. H. Walters; the San Fernando, from Aposa, with 550 tons of copper ore, for H. Bath and Son; Fearless, from Hondeklip Bay, with 339 tons of copper ore, for Richardson and Co.; the Zugia, from Palermo, with 50 tons of brimstone, to order; Glanavou, from Hondeklip Bay, with 230 tons of copper ore, 19 tons of regulus, and 37 tons of unwrought copper, for Richardson and Co.; the Maravilla, from San Francisco, with 766 tons of copper ore, 36 tons of plumbago, and 29 tons of managanese, &c., for T. Wood and Co.

SOUTH WALES INSTITUTE OF ENGINEERS.—The quarterly meeting of members was held, on Wednesday, at the Castle Hotel, Merthyr Tydvil, Mr George Martin (the President) occupied the chair, and there was a fair attendance. The discussion on the papers—"Duration of the South Wales Coal Field," by Mr. Bedlington; and "The Port of Newport, and its Coal Field"—was adjourned until the next meeting, in consequence of Mr. Bassett's absence; the two papers to be then discussed together. An interesting discussion took place on Mr. Cope Pearce's paper on "Mechanical Ventilation," and also on Mr. Viviau's paper on the "Structure of Iron." After the meeting the members dined together as usual, and the usual loyal and complimentary toasts followed. A full report will appear in next week's Mining Journal.

FOREST OF DEAN.—The favourable change in the weather has produced a return of business in this district—heavy freights are again being conveyed down each of the Forest railways, and the late accumulation of coal is rapidly becoming less. At Mr. Holmes's Howbeach Level, near Moseley Green, after two years' incessant work, accompanied by a considerable outlay, the Coleford High Delf vein has been reached. This vein is extensively worked on the Coleford side, and also at Whiteeroft, where it crops out. It is also being worked at Mr. Waiker's pit; the other crops out on the eastern side of the Dean Forest, but Mr. Holmes is the first in this valley who has worked it. It is said to be some 3 ft. at least in thickness, and will be much thicker as they advance, and coated with a stratum of rock, the position of which is highly favourable, and this circumstance will save the cost of timbering, so extensively used in the Forest, and so frequently attended with loss of life. The quality of the coal is particularly good both for engineering and household uses, and it is exceedingly inflammable and gaseous. Being adjacent to the Forest of Dean Central Railway, it is the more valuable on this account. The works at the Soudley iron furnaces are progressing favourably. The manager anticipates that in six weeks it will be put in blast. The Forest of Dean Central Railway, is nearly completed, and the stations are likewise progressing, but with the exception of the coal at Mr. Holmes's works there is no other sign of traffic being sent down this branch It runs very near the Fancy Pit, belonging to the Parkend Coal Company, at which some 250 tons of coal are raised daily; but at this line there is no indication of a siding being put in, the present route being down the Severn and Wye Railway, as it is more convenient for shipping. Unless the line is extended to Cinderford, the original shareholders cannot hope of receiving any return for some years. On Wednesday, the newly-creeted furnace at Parkend was put in hisat, and in the e FOREST OF DEAN .- The favourable change in the weather has pro-

#### Royal School of Mines.

#### MR. WARINGTON SMYTH'S LECTURES ON MINING.

LECTURE XLIII.—The next portion of the subject of the removal of the mineral underground, and raising it in the shaft, was one of a purely mechanical character. In this country the duties of a mining engineer were to a great extent separate from those of a mine manager; and hence the latter obtained much more assistance in of the mineral underground, and raising it in the shaft, was one of a purely mechanical character. In this country the duties of a mining engineer were to a great extent separate from those of a mining angineer were to a great extent separate from those of a mine manager; and hence the latter obtained much more assistance in the mechanical department than he could look for in the colonies or in the mechanical department than he could look for in the colonies or in the mechanical department than he could look for in the colonies or in the mechanical department than he could look for in the colonies or in the mechanical to be able to so into all the details of the construction of the engines he requires; to be able to so into all the amount of power requisite for certain purposes. Interest of the whole devoted themselves to the construction of the wheel, and the separate deal the separate so in the whole devoted themselves to the construction of machiner, and the separate of the construction of machiner, and the separate of the construction of machiner, and the separate of the separate which devoted themselves to the construction of machiner, and the separate of the

machinery in which water came very largely into play was the turbine wheels, which had of late years been much more extensively adopted than formerly; to a less degree, however, in mining than in other departments of inclustry. The turbine was only employed where it was desired to get a rotatory motion at a high velocity. Hence it was in the raising of minerals in shafts rather than for pumping and ventilating purposes that the turbine was more especially applicable. He should not omit to state, as regarded water-wheels, that they could only be advantageously employed within certain moderate limits of velocity, as it was obvious if they turned too fast there was a loss of power. The most economical speed to drive the overshot wheel was when the circumference travelled at the rate of 6 to 9 ft. per second. It was not advisable to have the wheels larger than 30 to 40 ft, in diameter, otherwise they would not get the full effect from them. Hence, if greater power than would be derived from one of that size were requisite it would be desirable to have two wheels. Another application of water-power which had of late years come into use was the hydraulic-pressure engine, the power being gained by the weight of a lofty column of water. This was a very useful invention, but it required very careful workmanship. It was, however, now thoroughly well understood in this country through its application under an infinite variety of circumstances, by Sir W. Armstrong, who had made a great number of them; and in one form or another they might be seen at all the railway stations. A great many were now employed in mines. machinery in which water came very largely into play was the turbine whe which had of late years been much more extensively adopted than formerly

NICHOLLS, MATHEWS, AND CO., ENGINEERS, BEDFORD IRONWORKS, TAVISTOCK.

MANUFACTURERS of STEAM ENGINES OF EVERY DESCRIPTION, made on the BEST and NEWEST PRINCIPLES. We beg more especially to call the attention of the public to the MANUFACTURE of our BOILERS, which have been tested by most of our leading engineers. PUMP WORK CASTINGS OF EVERY DESCRIPTION, both of brass and iron. HAMMERED IRON and HEAVY SHAFTS of ANY SIZE. CHAINS made of the best iron, and warranted. MINERS' TOOLS and RAILWAY WORK of EVERY DESCRIPTION. ALL ORDERS FOR ABROAD RECEIVE their BEST ATTENTION. NICHOLLS, MATHEWS, and Co. have had 20 years' experience in gupplying machinery to foreign mines, and selecting experienced workmen to creet the same, where required.

Messrs, Nicholls, Mathews, and Co. have always a LARGE STOCK of SECOND-HAND MINE MATERIALS in stock, and at moderate prices.

S A N D Y S. VIVIAN, AND CO., COPPER HOUSE FOUNDRY, HAYLE, CORNWALL, ENGINEERS, IRON AND BRASS FOUNDERS.

MANUFACTURERS of PUMPING ENGINES for WATER-WORKS, MINING MACHINERY, MATERIALS, and TOOLS of every description.

Foreign mines supplied on the best terms, and at the shortest notice. Second-hand Mining Machinery and Pitwork in Stock; also a new 4 and a 2-horse power high-pressure vertical engines, with boilers, and a second-hand 19-inch whim engine, condensing.

Whim engine, condensing.

WILLIAMS'S PERRAN FOUNDRY COMPANY,
PERRANARWORTHAL, CORNWALL.
MANUFACTURERS of STEAM PUMPING and EVERY OTHER KIND of
ENGINES, together with BOILERS, PUMP CASTINGS, and MINING TOOLS
of every description, of the very best quality. Estimates given for the supply of
any amount of machinery.
London Agent.—Mr. Edward Cooke, 76, Old Broad-street, London, E.C.

RAILWAY CARRIAGE COMPANY (LIMITED)

ATLWAY CARRIAGE COMPANY (LIMITED)
ESTABLISHED 1847.
OLDBURY WORKS, NEAR BIRMINGHAM.
MANUFACTURERS OF RAILWAY CARRIAGES and WAGONS, and EVERY
DESCRIPTION OF HONWORK.
Passenger carriages and wagons built, either for cash or for payment
over a period of years.
RAILWAY WAGONS FOR HIRE.
CHIEF OFFICES,—OLDBURY WORKS, NEAR BIRMINGHAM.
LONDON OFFICES,—6, STOREY'S GATE. GREAT GEORGE STREET,
WESTMINSTER.

WESTMINSTER.

THE BEVERLEY IRON AND WAGON COMPANY (LIMITED).

MANUFACTURERS of RAILWAY CARRIAGES and WAGONS, WROUGHT and CAST IRON CARRIAGE and WAGON WHEELS, AXLES, HAMMERED USES, and HEAVY SMITHS' WORK for ENGINEERS, &c. BRASS AND HEAVY SMITHS' WORK for ENGINEERS, &c. BRASS AND HEAVY SMITHS' WORK for ENGINEERS, &c. ARRICULTURAL MACHINISTS, ATBLES, CROSSINGS, SWITCHES, &c. AGRICULTURAL MACHINISTS, MANUFACTURERS of FIELD, ROAD, and BARN IMPLEMENTS, PATENT LORRY, CART, and CARRIAGE WHEELS, with WOOD OF IRON NAVES, REAPING MACHINES, COD CRUSHERS, CORN MILLS, &c. SAW MILL PROPRIETORS, GENERAL THIBER CONVERTERS for home and foreign RAILWAYS, STATIONS, BARRACKS, EXHIBITIONS, &c.

IRONWORKS BEVERLEY, YORKSHIRE.

JAMES DEWHIRST, Sec.

THE BIRMINGHAM WAGON COMPANY (LIMITED)

MANUFACTURE RAILWAY WAGONS of EVERY DESCRIPTION, for
HIRE and SALE, by immediate or deferred payments. They have also wagons
for hire capable of carrying 6, 8, and 10 tons, part of which are constructed specially for shipping purposes. Wagons in working order maintained by contract.

EDMUND FOWLER, Sec.

WAGON WORKS,—SMETHWICK, BIRMINGHAM.

\*\*\* Loans received on Debenture; particulars on application.

London Agent—Mr. E. B. SAVILE, 67, Victoria-street, Westminster, S.W.

STAFFORDSHIRE WHEEL AND AXLE COMPANY (LIMITED),
MANUFACTURERS OF RAILWAY CARRIAGE, WAGON, and CONTRACTORS WHEELS and AXLES, and other IRONWORK, used in the CONSTRUCTION OF RAILWAY ROLLING STOCK.
OFFICES AND WORKS,
HEATH STREET SOUTH, SPRING HILL, BIRMINGHAM.

BOWLING IRON COMPANY,
BRADFORD, YORKSHIRE.
BEST CRUCIBLE CAST-STEEL TYRES, AXLES, CRANK
AXLES, BOILER PLATES,
Also COG WHEELS, and other CASTINGS.

This company is prepared to furnish the above-mentioned articles in CAST
STEEL of a very superior quality, made principally from their own well-known
"BOWLING IRON."
Also BOWLING WROUGHT-IRON SOLID WELDLESS TYRES, of any size and to any section.

THE SEACOMBE FORGE RIVET AND BOLT COMPANY,

MANUFACTURERS OF BOLTS, RIVETS, WASHERS, COACH SCREWS, SPIKES, SET PINS,

TIE RODS, COTTER PINS, &c.;

ENGINEERS' AND SHIPBUILDERS' FORGINGS, SMITHS' WORK, and every description of SHIPS' FASTENINGS.

WORKS, -SEACOMBE, NEAR BIRKENHEAD.

GOOD ROLLING MILL TRAIN ON SALE SEACOMBE FORGE RIVET AND BOLT WORKS, Near Birkenhead.

STEEL! STEEL!! STEEL!!!

STEEL! STEEL!! STEEL!!

JOHN TURNER, SHEFFIELD, AND STOCKTON-ON-TEES,
MANUFACTURER OF SUPERIOR REFINED CAST STEEL for
MINERS' DRILLS,
CUP and TURNING TOOLS, price and quality not surpassed. Try one bar,
delivered free at manufacturers' prices.

J. TURNER keeps in stock all kinds of tools suitable for engineers, mining
purposes, and shipbuilders, at the Stockton depôt, where all communications
are requested to be sent.

GALIBERT'S PATENT RESPIRATOR
For PRESERVING LIFE at FIRES, in DANGEROUS MINES, or in
NOXIOUS VAPOURS. Full particulars by post.
PATENT INVENTION COMPANY,
No. 45, LITTLE BRITAIN, LONDON, E.C.

CAPT. JOHN ROBERTS, YSTALYFERA HOTEL, SWANSEA VALE, SWANSEA—Capt. J. ROBERTS, having had upwards of eighteen years' practical experience in GOLD MINING, OFFERS his SERVICES as ANANAGING AGENT, either at home or abroad.

Copies of the highest testimonials forwarded on application as above.

CARNARVONSHIRE CONSOLIDATED LEAD MINES

CARNARYONSHIRE CONSOLIDATED LEAD MINES

COMPANY (LIMITED).

Sin,—In the advertising columns of last week's Journal was a notice of what profe sed to be a meeting of shareholders in the above company; and in another part of the Journal was a short paragraph promising a complete report in this week's paper of the proceedings of the said meeting.

In order that shareholders and that portion of the public who take an interest in the affairs of this mine may not be misled by such report, allow me to inform them, through you, that the said meeting was not called by the directors, nor in virtue of any valid requisition signed by the requisite number of shareholders requiring them to call such meeting; that it was attended by six persons on: I, two of whom, Messrs. Lelean and Carpenter, are defendants in the suit commenced against them for the cancelling of certain shares in the company, issued by them and assigned to themselves and their nominees as fully paid-up shares; that, of the three real shareholders present, one, who was placed in the chalr, purchased his shares only a few days before the meeting; that the whole number of shares held by these three persons was only 180, and that the number of real shares represented by proxies was only 180, making altogether 255 out of :500 shares; that the object of the meeting was, by the aid of its votes representing shares improperly issued, to defeat the suit commenced by the directors for cancelling those shares, and for declaring void a fraudulent contract which Messrs. Lelean, Carpenter, and others are attempting to impose upon the company.

On the other hand, the owners of a large majority of the real shares approve of, and support, the course taken by the committee of directors.

I remain, sir, your obedient servant,

2, Telegraph-street, London, E.C., March 29, 1867.

C. H. WARTON.

of 2, Telegraph-street, London, E.C., March 29, 1867.

THE ROSSA GRANDE GOLD MINING COMPANY (LIMITED).—Notice is hereby given, that the directors have this day made a CALL of TWO SHILLINGS AND SIXPENCE PER SHARE, payable at the London and Westminster Bank, Lothbury, on or before the 24th day of

at the London and Westminster Bank, Lothbury, on or before the 24th day of April next.

The Transfer-books will be closed from the 25th to the 30th of March, both days inclusive.

By order.

C. B. PARRY, Secretary pro tem.

182, Gresham House, Old Broad-street, London, March 25, 1867.

N.B.—By the Articles of Association calls in arrear are subject to interest at the rate of 10 per cent. per annum.

PREUSSISCHE BERGWERKS AND HUTTEN-ACTIEN-GESELLSCHAFT.

PRUSSIAN MINING AND HUTTEN-ACTIEN-GESELLSCHAFT.

PRUSSIAN MINING AND IRONWORKS COMPANY
(Limited under Prussian Law).

PAYMENT OF SIXTH AND SEVENTH (last) CALL.

The shareholders are requested to PAY to the Direction of the Company, at their office, No. 30, Beniather-street, Dusseldorf, or at any of the undermentioned bankers.

THE SIXTH CALL OF TWENTY PER CENT., OR SIX POUNDS PER SHARE, on or before the 10th of May next;
THE SEVENTH (last) CALL OF TWENTY PER CENT., OR SIX POUNDS PER SHARE, on or before the 29th of June next.

THE SEVENTH (last) CALL OF TWENTY PER CENT., OR SIX POUNDS PER SHARE, on or before the 29th of June next.

In accordance with par. 9 of the Statutes, interest at the rate of Five per centper annum is allowed upon all payments made upon the calls. The Council of Supervision is also empowered to fix the terms upon which, instead of payment by calls, full payment of the shares can take place, and in order to carry out the suggestions for the more rapid completion of the works of the company (for which everything is now favourably prepared), made in the report at the first general meeting of the company, on the 7th May last, they have passed a resolution to allow interest at the rate of Six per cent, on payments in full made for any number of shares, in advance of calls.

The "quittungsbogen," which have been issued by us upon the payment of the first call, should be presented at our office, or at the bankers, when further payments are being made, in order to have the same acknowledged on the face thereof, as provided by par. 9 of the Statutes.

Shareholders paying in full on the whole or on any number of their shares will have the full payment acknowledged on the respective "quittungsbogen," which can then without delay be exchanged for the shares themselves, which latter are, in accordance with the Statutes, issued to bearer, and are, therefore, transferable without endorsement.

PRUSSIAN MINING AND IRONWORKS COMPANY.

Dusseldorf, March 25, 1867. THE COUNCIL OF SUPERVISION.

The bankers of the company are—for England and Ireland: The National Bank, and its branches.

THE NEW NANTYMWYN MINING EXTENSION COMPANY

Incorporated under the Companies Act, 1862, whereby the liability of each shareholder is limited to the amount of his shares.

Sarcholder is fillitted to the amount of his shares.

Capital £50,000, in 50,000 shares of £1 each; 5s. deposit on application, and 5s. per share on allotment.

No call will be made for six months, and it is probable from the prospects, with the assistance of the ore money, that no further capital will be required.

DIRECTORS.

Capt. WM. A. RUMBELOW PEARSE, R. N., St. Peter's-square, Hammersmith, and Senior United Service Club, Pall Mall.

Major R. E. F. CRAUFURD, late Royal Artillery, 27, Oakley-square, Brompton, London.

London.
FRANCIS WILLIAM STONE, Esq., late H.E.I.C.S., 15, Royal Avenue-terrace, Chelsea, and 6, Prospect-place, Hastings.
HENRY O'MALLEY, Esq., Barrister, 23, Sidney-street, Brompton, and Kilbovne House, Mayo, Ireland.

boyne House, Mayo, Ireland, CHRISTOPHER RIGBYE A'HMUTY, Esq., 137, Cambridge-street, South Bel-

CHRISTOPHER RIGBYE A'HMUTT, Esq., 101, tambringe-strees, odd on gravia, London.

[don. HENRY CLINTON COOPER, Esq., 78, Gloncester-street, South Belgravia, Lon-FRANCIS JOSEPH SLOCOMBE LESTER, Esq., Wellington-road, Gravesend, Kent, and Goodwood-road, New Southsea, Hants
(With power to add),

BANKERS—The North and South Wales Bank, Welshpool; and Messrs, Jones and Co., 8, Bank, Llandovery, South Wales.

AUDITOR—George Atkins, Esq., Sydney Villa, Rlehmond, Surrey.

BROKERS—Messes, Barrett and Co., 20, Spring-gardens, Charing-cross, and 78, Lombard-street, London.

MANAGER AT THE MINES—Capt. R. Rowse, Mining Engineer.

SECRETARY—William Henry Harden, Esq., REGISTERED OFFICES.

REGISTERED OFFICES.
No. 5, BATAVIA BUILDINGS, HACKINS' HEY, LIVERPOOL.

No. 5, BATAVIA BUILDINGS, HACKINS' HEY, LIVERPOOL.

ABRIDGED PROSPECTUS.

The object of the company is to acquire three valuable mining properties in Carmartheeshire—that is to say, New Nantymwyn, Gilfach, and Gian-Towy.

New Nantymwyn is a continuation westward of the celebrated Nantymwyn Mines. These mines have been worked to immense profit for centuries, and appear to be perfectly inexhaustible. Some idea may be formed of the great value of these lodes from the fact that they occupy a channel of 180 ft. in width, consisting of six divisions or iodes, and that a sink on one of them is now yielding 18 tons of rich quality ore, worth upwards of £200 per fathom for lead.

2.—The Gilfach property consists of a lead mine, worked to some extent, and furnished with water machinery, in which a discovery of lead ore has been made by an addit. It is proposed by the company to extent the shaft downwards on this course of ore, as well as to explore another discovery of ore in the set on the Lady Eliza No. 2 lode, where there is a good back of ore ground cropping up to, and extending a considerable length along, the surface.

3.—Glan-Towy is an old lead mine. Shafts, which have yielded lead ore in some quantity, exist on the top of the bill, and the present company propose to drive an adit to prove the value of the lode under the old sinks.

Plans taken from the Ordnane- Survey, showing the exact position of the lodes, together with ground plans of the estate sections of the mines, and reports by skilful mining engineers, are appended, and will be forwarded on application to the secretary. Specimens of the ore may be seen at the company's offices.

Taking into consideration the proposed, profits equal to the adjoining mines will be participated in by the shareholders.

Applications for shares, to be accompanied with the deposit of 5s, per share, may be made to the secretary, at the offices of the company, (Limited).

FORM OF APPLICATION FOR SHARES.

To the Directors of the New Nantymwyn Mining Extension Company (Limited)
GENTLEMEN,—Having paid to your bankers the sum of £ being a de
posit of 5s. per share on shares of the above company. I bereby request that
you will aliot me that number, and I agree to accept such shares, or any less
number you may aliot to me; and I agree to sign the Articles of Association of
the company when required, and I authorise you to place my name on the register of shareholders for the shares allotted to me.

Usual signature.

Usual signature.

Usual signature.....

Notice is hereby given, that NO APPLICATION FOR SHARES can be RECEIVED after SATURDAY, March 30, 1867.

ments, perfected their coal cutting machinery, worked by compressed air, ar NOW READY to MAKE CONTRACTS for the CONSTRUCTION and USE of The results of twelve months' experience in the

The results of twelve months' experience in the working of these machines, by the West Ardsley Company, have proved most satisfactory, their use being found to CHEAPEN the COST and IMPROVE the average SIZE of the COAL, t LIGHTEN the LABOUR, and also to MODIFY the SANITARY CONDITION of the MINE.

All companies the

All communications to be made to Messrs. FIRTH, DONNISTHORPE, and BOWER
No. 8. Britannia-street. Leeds.

NOTICE.—The WEST ARDSLEY COMPANY, having reason to believe that their patents are being infringed more having reason. believe that their patents are being infringed upon, hereby given they will TAKE LEGAL PROCEEDINGS AGAINST ALL PARTIE WAKE FOR SALE, Or USE ANY MACHINERY in the construction any such INFRINGEMENT is MADE.

A NALYSES OF COAL, CANNEL, MINERAL OILS, and all OIL PRODUCING MINERALS are UNDERTAKEN by A. NORMAN TATE, F.A.S.L., &c., ANALYTICAL and CONSULTING CHEMIST, and CHEMICAL ENGINEER (Author of "Petroleum and its Products," &c.).

(Author of and estimates for oil and chemical works prepared, and their erection superintended.

Assays of metals and their ores carefully conducted. MOLD, NORTH WALES Plans and estimates for oil and ch

CAPT. RICH, BODMIN, CORNWALL, being in the centre of the mining districts of Devon and Cornwall, and having had 25 years experience in the management and inspection of mines, OFFERS HIS SERVICE by INSPECT and REPORT on MINES in either of the above counties. There

M. CHAS. BAWDEN, ST. DAY, SCORRIER, CORNWALL will be happy to ADVISE with CAPITALISTS as to the BEST MINES for INVESTMENT IN CORNWALL and DEVON.

THE IRON TRADE REVIEW.—The Iron Trade Review is now recognised as the leading organ in which the interests of the iron manufacturers of Great Britain are represented. The aim of the proprietors is to provide a journal which shall be worthy of this important branch of national industry. The following matters receive special attention:—Detailed reports of the state of trade in all the important manufacturing districts, with lates intelligence of meetings, and price lists of pig and finished iron. Occasional notices of the Continental and American trades. Condensed information relative to the proceedings of railways and other public companies which have a bearing mean the iron trade. Notices of scientific improvements applicable the manufacture of iron. Reports on such labour questions as may arise. Note on Parliamentary Bills bearing on the trade. In addition to the above, leading articles on important topics appear in each issue, and great care is taken that the information contained in the Review shall be thoroughly reliable. The annual subscript!—n is one guinca, payable in advance. Advertisements are inserted on reasonable terms, which may be ascertained on application.—Published for the proprietors, at the fron Trade Review office, Middlesbrough-on-Tees; and \$450, Grey-Street, Newcastle-on-Type, by M. and M. W. Lambert, printers. for the proprietors, at the Iron Trade Baylew office, Middlesbrough-on-Tees at 80, Grey-street, Newcastle-on-Tyne, by M. and M. W. Lambert, printers

In the Court of the Vice-Warden of the Stannaries naries of Devon

IN the MATTER of the COMPANIES ACT, 1862, and of the SWINCOMBE VALE MINING COMPANY (LIMITED).—Notice is hereby given, that ALL CREDITORS of the ABOVE-NAMED COMPANY are REQUIRED, on or before the 6th day of April next, to SEND IN THEIR NAMES and ADDRESSES, and the AMOUNTS and PARTICULARS of THEIR SEVERAL CLAIMS on the said company, to WILLIAM MICHELL, Esq., the Registrar of the said Court, at his office in Truro.

Dated Registrar's Office, Truro, 26th March, 1867.

In the Court of the Vice-Warden of the Stannaries.

IN the MATTER of the COMPANIES ACT, 1862, and of the PENHALE AND LOMAX CONSOLIDATED SILVER-LEAD MINING COMPANY (LIMITED).—Notice is hereby given, that a PETITION for the WINDING-UP of the ABOVE-NAMED COMPANY by the Court was, on the 22d day of March inst., presented to the Vice-Warden of the Stannaries by Jabez Tuck, a creditor of the said company, and that the said petition is directed to be heard before the Vice-Warden at No. 18, Thurloe-square, South Kensington, in the county of Middlesex, on Thursday, the 4th day of April next, at half-past Eleven o'clock in the forenoon.

Any contributory or creditor of the company may appear at the hearing and oppose the same, provided he has given at least two clear days' notice to the petitioner, his solicitors, or agent, of his intention to do so, such notice to be forthwith forwarded to P. P. Smith, Esq., secretary of the Vice-Warden, Truro.

Every such contributory or creditor is entitled to a copy of the petition and affidavit verifying the same, from the petitioner, his solicitor, or agent, within 24 hours after requiring the same, on payment of the regulated charge per folio. Affidavits intended to be used at the hearing, in opposition to the petition, must be filed at the Registrar's Office, Truro, on or before Tuesday, the 2d day of April next, and notice thereof must at the same time be given to the petitioner, his solicitor, or agent.

A. PIULBROOK 28. Threadneedle-street, London

of April next, and notice thereof must at the same time be given to the peticioner, his solicitor, or agent.

A. PULBROOK, 28, Threadneedle-street, London (Solicitor for the petitioner),

J. G. CHILCOTT, Truro (Agent of the said Solicitor).

In the Court of the Vice-Warden of the Stannaries Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the PENHALE AND LOMAX CONSOLIDATED SILVER-LEAD MINING COMPANY (LIMITED).—Notice is hereby given, that a PETITION for the WINDING-UP of the ABOVE-NAMED COMPANY by the Court was, on the 22d day of March instant, presented to the Vice-Warden of the Stannaries by the said Penhale and Lomax Consolidated Silver-Lead Mining Company (Limited) and Thomas Eyre Foakes, Richard Davis, and Stewart Smyth Windham, directors and also shareholders of the said company, and then the said petition is directed to be heard before the Vice-Warden, at No. 18, Thurloe-square, Brompton, in the county of Middlesex, on Thursday, the 4th day of April next, and half-past Eivern o'clock in the forenoon.

Any contributory or creditor of the company may appear at the hearing and oppose the same, provided he has given at least two clear days' notice to the pertitioners, their solicitor, or his agents, of his intention to do so, such notice to be forthwith forwarded to P. P. Smith, Esq., secretary of the Vice-Warden, Truro.

ruro.

Every such contributory or creditor is entitled to a copy of the petition and iddaylt verifying the same, from the petitioners, their solicitor, or his agents, ithin 24 hours after requiring the same, on payment of the regulated charge.

per follo.

Affidavits intended to be used at the hearing, in opposition to the petition, must be filed at the Registrar's Office, Truro, on or before the 1st day of April next, and notice thereof must, at the same time, be given to the petitioners, their collector on his agents.

heir solicitor, or his agents.

HODGE, HOCKIN, AND MARRACK, Truro, Cornwall
(Agents for W. Compton Smith, 48, Lincoln's Inn Fields, Londo
Dated Truro, March 23, 1867.

Petitioners' Solicitor).

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the RETANNA HILL MINING COMPANY.—TO BE SOLD, BY PUBLIC AUCTION, at and upon the RETANNA HILL MINE, situate in the parish of Wendron, in the county of Cornwall, under the direction of the Registrar of the said Court, on Friday, the 12th day of April next, at Twelve o'clock at noon, subject to such conditions as shall be then and there produced, a STEAM-ENGINE, 21 in. cylinder, without boiler.

To view, apply to Mr. Vergor, at the mine.

DosePH ROBERTS, solicitor, Truro.

Dated Registrar's Office, Truro, 28th March, 1867.

In Chancery.

IN THE MATTER OF THE COMPANIES ACT, 1862, AND IN THE MATTER OF THE NANT COAL COMPANY (LIMITED TO COLLIERY PROPRIETORS AND OTHERS .- SALE OF THE

NANT COLLIERY, FLINTSHIRE.

MR. J. PICKERING has received instructions from the Liquidators appointed to wind-up this company, to OFFER FOR SALE, BY AUCTION, on Wednesday, the 17th day of April, 1887, at the Grosvenor Hotel, in the City of Chester, at Three for Four o'clock (unless disposed of by tenderon orbefore the 1st of April), the whole of the EXTENSIVE and very VALUABLE MINERAL PROPERTY, known by the name of the

"NANT COLLIERY,"

Situated three miles from the town of Mold, nine from Chester, and twenty-six from the shipping port of Birkenhead, together with the LEASES, PLANT, MACHINERY, &c.

The area of this property is about 500 acres of the best mineral ground in Filmshire, containing all the celebrated North Wales Steam and House Coal and Cannel. It is held by leases granted by the Lords of the Manor of Mold, and the Trustees of Auchin Grammar School. These leases are for a term of twenty-one years each, seventeen of which respectively are unexpired. They contain the usual clauses for renewal, if required. The royalties and minimum rents are very moderate.

Of the area above mentioned about 40 acres only have been wrought, leaving the remainder intact.

contain the dust clauses for real-way, it required. The cyclates and content to the content and the remainder intact.

Of the area above mentioned about 40 acres only have been wrought, leaving the remainder intact.

The Mold branch of the London and North Western Railway runs through the centre of the property, and the pits are connected with it by a private locomotive branch nearly a thousand yards long, with all junctions, points, crossings, gates, &c., complete, thus affording convenient access by the narrow-guage-system to all parts of the kingdom.

The PLANT on the coillery is very extensive and good. It comprises ONE HORIZONTAL HIGH-PRESSURE PUMPING-ENGINE, with three boilers and fittings, double pit-head frames, flat wire-ropes, cages and conductors, complete; capstans, shears, Jackroll, &c.; two wrought-iron screens, with iron tipplers; a PORTABLE ENGINE, and the work of the most modern construction, with self-acting adjustment, and two circular saws of 4 t. and 3 t. diameter respectively; a TANK LOCO-MOTIVE ENGINE, nearly new; a large quantity of iron tubs, water tanks, rails, plates, and crossings; a very good and useful assortment of smiths' and carpenters' tools, various timber, stoves, and loose materials.

This coiliery being immediately contiguous to the extensive and well-known Buckley Brick and Tile Works, which consume a very considerable amount of fuel, a constant local demand is afforded for its produce.

The whole will be sold in one or more lots, of which due notice will be given. The Auctioneer has much pleasure in offering this valuable property to capitalists as an investment rarely to be met with.

Tenders may be forwarded to the Liquidators, but they will not be bound to accept the highest or any tender that may be made.

For further particulars, and to view the same, apply to Mr. J. Holcroff, on the premises; the Liquidators, H. McCrelfoff, Esq., 6, Raymond's-buildings, Gray's Inn, London, and 21. Waterioo-street, Birmingham, and Alterbed Haraison, 48, Paradise-street, Birmingham; o

MR. ROBERT EVANS WILL SELL, BY AUCTION, at the Castle Hotel, Neath, on Thursday, the 25th day of April, 1867, in One Lot (unless previously disposed of by private contract), the VALUABLE COLLIERY, known as—

THE VENALLT STEAM COAL COLLIERY,
In full working order, situate at Glyn-Neath; comprising VALUABLE SEAMS
of STEAM COAL, IRON ORE, and BLACKBAND. Among the seams in the
Upper Series is included the famous Resolven vein of steam coal, on the Admiraity List, and extensively worked on the adjoining property. The mineral
taking comprises about 430 acres.

The Vale of Neath Railway (broad and narrow gauge) runs through the
Venalit Estate, placing the colliery in direct communication with the ports of
Swansea, Port Taibot, and Briton Ferry (less than 15 miles distant); also with
Liverpool and the North; and by the Great Western Railway there is direct
communication with London; the toils between the colliery and the Paddington
Ferminus (including City dues) being under 8s, per ton.

All the necessary works, appliances, and buildings have been erected, and
very commodious broad and narrow gauge railway sidings, tipping stages, and
roads formed, and about 20 cottages are held at moderate rents.

The two upper veins have been thoroughly opened by level and slant; at the
present time from 100 to 150 tons of coal a-day can be raised, which within six
weeks could be increased to 200 tons.

Particulars and conditions of sale, with plan, may be obtained of Messrs.
TUCKER and New, solicitors, 4, King-street, Cheapside. London; and of Me
ROBERT EVANS, laad agent and suctioneer, Bridgend. May be viewed by gwing
one day's previous notice to Mr. William Evans, agent, Venallt Colliny,
Glynn-Neath. THE VENALLT STEAM COAL COLLIERY

TO BE SOLD, cheap, a PORTABLE ENGINE of 14 horse power, double cylinder, of first-class construction, workmanship, and material. Winding gear to order. SECOND-HAND PORTABLES FOR SALE.—Apply to MCART, BARBOWS and CARMICHAEL, engineers, Banbury, Oxon.

IMPORTANT TO ENGINEERS, MACHINISTS, SMITHS, AND OTH IMPORTANT TO ENGINEERS, MACHINISTS, SMITHS, AND OTRINMERS. P. KITCHEN has been instructed to SELL, BY AUCTION BY Order of the Assignees of Messrs. Forsyth, Robertson, and Bras. the premises, Corkickie Engine-works, Whitehaven, on Friday, and Sates the and 64 to 4 April, 1867, commencing each day at Ten A.M., the wholest MACHINERY, PLANT. TOOLS, &c., consisting of horizontal and very ENGINES and BOILERS; PLANING MACHINE, 3 ft. stroke; 11 in, becrew cutting lathe, 15 ft. bed, with tools; 7½ in, heads serve watting is sky ft. bed, with tools; 12 in, heads sates, 39 ft. bed, with tools; 12 in, heads sates, 15 ft. bed, with tools; 15 in, heads sates, 16 ft. bed, with tools; 17 in, heads sates, 16 ft. bed, with tools; 17 in, heads sates, 18 ft. bed, with tools; 18 ft. bed, with tools; 19 ft. bed, with tools; 18 ft. bed, with tools; 19 ft. bed, with tools; 19 ft. bed, with tools; 19 ft. bed, with tools; 10 ft. bed, 20 ft. b

PRELIMINARY ADVERTISEMENT.

IMPORTANT IRONWORKS IN MONMOUTHSHIRE FOR SALE.
THE CWM CELYN, BLAINA, AND COALBROOK VALE IRONWO BRAND C C.

MESSRS. FULLER AND HORSEY are instructed to SEL carly in May, at the Auction Mart, London (unless previously sell representation), the important, extensive, and valuable MINERAL ESTAN

CWM CELYN, BLAINA, and COALBROOK VALE IRONWORD

CWM CELYN, BLAINA, and COALBROOK VALE IRONWORD Situate in the parish of ABERYSTRUTH, in the county of MOMOUTE, was a commodious wharf at the shipping port of Newport.

The Estates include 399A. OR. 22P. of MINERAL PROPERTY, of white a commodious wharf at the shipping port of Newport.

The Estates include 399A. OR. 22P. of MINERAL PROPERTY, of white a fixed states include 399A. OR. 23P. of MINERAL PROPERTY, of white FORGES, MILLS, and other necessary machinery, capable of turbing any early quantity of 40,000 tons of finished from: numerous pits for working minerals, foundries, engineering shops, and timber sawmills, also complete system of railways, with locomotive-engines, extensive rollinges and every other requisite for advantageously carrying on the manulactation, or for the raising of coal for sale purposes. The forges and mills averaged for six years a yearly make of 39,000 tons of finished from.

The minerals are well opened and drained, and in quality and quantity, to any in the district; the coal for steam purposes is unsurpassed. The brand, or make, of the iron is well known in Great Britain, on the tinent, in the United States, and the Colonies.

The works are distant 20 miles from the shipping port of Newport, and also to the inland markets.

The wharf at Newport, held in connection with the works, is most convention.

The works are distance and the state of the

EIGHT HUNDRED AND FIFTY TONS PUDDLED BARS, suitable Armour-plates, and TWO HUNDRED TONS old double-headed Ralia

Armour-plates, and TWO HUNDRED TONS old double-headed Raliz.

MESSRS. FULLER AND HORSEY are instructed to SE
BY TENDER, in one or more lots, 850 TONS WELSH PUDDLEDS
in various sizes, and 200 TONS DOUBLE-HEADED RAILS, now lying
wharf on the Thames, where the iron may be viewed by orders, which, wish
eifications and forms of tender, may be had at Messrs. Fuller and Howe
offices, 13, Billiter-street, London, E.C. Payment to be made in cash. Tuiders will be received and opened, and the purchaser declared, at the offan
Messrs. Fuller and Horsey, 13, Billiter-street, E.C., on Thursday, the lead
of April next, at Twelve o'clock precisely. The vendors do not bind them
to accept the highest or any tender.

GLAMORGANSHIRE

FOR SALE, BY AUCTION, at the Angel Hotel, Cardif, Tuesday, the 2d April next, at Three o'clock precisely in the aften the COLLIERY known as— COED-CAE-DURRIS COLLIERY,

Situate in the parish of EGLWYSILAN, in the county of GLAMORGAN, we nine miles of the Port of Cardiff, having convenient access to the Rhymneph way and the Giamorganshire Canal.

The property, which contains a total area of 299 A. 3 R. 9 P., is held for the expired residue of a term of forty-five years, commencing from the 25th ke 1858, at moderate royalties and certain rent. The colliery is believed by the valuable Lianuvit seams of the district, the upper vein having been also won and worked.

The lease may be inspected by intending purchasers, and all further culars obtained on application to Mr. B. W. WILLIAMS, Solicitor, Cardif.

THE MOLLAND MINE AND PLANT, TO BE SOLD! THE MOLLAND MINE AND PLANT, TO BE SOLD I TENDER.—The mine is situated about eight miles from South Me and twenty miles from Barnstaple. The PLANT consists of a STEAM-ESS and BOILER, pitwork, water-wheel, and crusher, and everything necessing carrying on the mine. The mine embraces three copper lodes. The one of operations have been conducted is a strong, large, masterly, and promising from which hundreds of tons of ore have been raised. The mine is downs at the lowest point from surface. At the bottom level the lode is large size gular, presenting a promising appearance, and has produced many tone of grey ore. It only requires a small additional capital to sink the miness depth at which the Bampfylde Mine became rich. The latter mine is worked the same district, and worked on parallel lodes to the north-west. The easier in the year 1866 were 418 tons, at an average price of £12 per ton. It is now gular dividend-paying mine.

Further particulars may be obtained from Captpt. BENNETTS, South Mine by whose permission the mine may be inspected, and to whom tenders may addressed on or before Saturday, 18th April next,—March 18, 1867.

LEAD MINES TO LET.—The ELLERTON MOOR LUMINES, situate in the parish of DOWNHOLM, near RICHMOND, 700 SHIRE, TO LET, for a term of years.—Apply to "J. S. W. S.," E. Dra, is Charboro' Park, Blandford, Dorset.

PEMBROKESHIRE--CAPITAL SLATE AND SLAB QUARRIES.

PEMBRORESHIRE—CAPITAL SLATE AND SLAB QUARRIES.

TO BE LET, OR SOLD, with immediate possession.

LITTLE NEWCASTLE, near HAVERFORDWEST, which have for yeary duced slate of the best blue and grey colours, of such superior quality site tablish a reputation throughout the southern districts.

The quality of the state is equal to any produced by the North Walesquent the prevailing colour is blue, but there are also grey and blue grey, as whole is of a pure, compact, rich metal, capable of being converted integer of the first-class.

of the first-class.

Anoderate capital only is required to work the quarries, which are his ably situated six miles from Fishguard, the same from the Clarbastos sis on the South Waits Railway, and the proposed continuation of the Mades and Milford lines is to pass within an easy distance.

For further particulars, apply to M. BRITTAN and SONS, or BARNARD, THIS and CO., both of Briston.

and Co., both of Bristol.

FOR SALE, and may be seen at the Ashburton Mines, 56 in. PUMPING ENGINE, with TWO 11 ton CORNISH made 80 ONE 40 in. PUMPING ENGINE, only made a short time, and as good with an 11 ton BOILER. A 24 in. WHIM ENGINE, with stamps attached 11 ton BOILER. Several WATER-WHEELS of various sizes, one will excellent drawing machine attached. Pumps and materials of all respectively. Application may be made to Mr. W. MATHEWS, engineer, Taviscan be seen on application to people in charge of the mine.

STEAM ENGINE.—FOR SALE, a 60 in. PUMPING ENG equal beam, 10 ft. stroke, with TWO 10 ton BOILERS. This engine Messrs. Nicholis and Co., of the Bedford Foundry, Tavistock, and is be 60 in. engine for sale in Cornwall or Devon.—For further particulars, and Mr. James Hickey, 22, Austinfriars, Loudon.

STEAM-BOILERS made by WILLIAM WILSON, LILYBUT BOILER WORKS, GLASGOW, on the most improved principles, for and experit. All boilers made of the best material and workmaship mand warranted tight under a high pressure, and delivered at any railways thon or shipping port in the kingdom at moderate rates. Lithograph of the forwarded post-free on application.

DUMP-LIFTS .- TO MINING COMPANIES, AND OTHER The EXECUTORS of JESSE VARLEY, BROOKFIELD FOUNT, HELEN'S, LANCASHIRE, having PATTERNS for all sizes of LIFTS, and being specially PREPARED for their MANUFACTURE ut, are in a position to supply them at reasonable prices, and with specific them to supply them at reasonable prices, and with specific provarded on application.

A S T I E R 'S C H A I N P U M F
This patent pump is the MOST EFFICIENT in existence for LIFE
ANY QUANTITY of WATER from ANY DEFTH. One lifting from a second of 170 ft. may be seen at work dully, on application to the

MESSRS. J. JACKSON AND CO., ENGINEERS, 17, GRACECHUSCH
STREET, LONDON, E.C.,
Who SUPPLY PUMPS and LIUENCES.

Communications to Mr. Bastier, the patentee, to be sent to the same address.

AGENT FOR THE COUNTIES OF NORTHUMBERLAND AND DURHAM, YORESIS DERBYSHIRE, AND NORTH STAFFURDSHIRE, THOMAS GREENER, MINING OFFICE, NORTHGATE, DARLINGTON.

AGENTS FOR SCOTLAND.
MESSRS. P. and W. MACLELLAN, 127 and 129, IRONGATE, GLASGOT. R OBERT LIBBY AND CAMBORNE, CORNWALL,

# NEXPLOSIVE BLASTING POWDER

NNOT EXPLODE WHEN EXPOSED TO AIR!

INTERESTED IN COLLIERY, MINING, AND NGINEERING OPERATIONS are invited to TEST this NEW INEX. E COMPOUND, which meets with great favour upon the Continent has been in use for some time past.

mas been in use the same in the safety to a degree never before known to economical than ordinary blasting-powder:—

use it is cheaper in first cost.

th same to be considered in the same to the same bulk (which is less weight) more effect is produced.

N. H. NEWBY is now prepared to register orders for the ab on application to the offices, No. 39A, KING AVILLIAM CITY, LONDON.

HN AND EDWIN WRIGHT, PATENTERS

(ESTABLISHED 1770.)
MANUFACTURERS OF EVERY DESCRIPTION OF IMPROVED

IMPROVED

TENT FLAT AND ROUND WIRE ROPES,
From the very best quality of charcoal iron and steel wire.

TENT FLAT AND ROUND HEMP ROPES.

RIGGING, SIGNAL AND FENCING STRAND, LIGHTNING CONORS, STEAM PLOUGH ROPES (made from Webster and Horsfall's at steel wire), HEMP, FLAX, ENGINE YARN, COTTON WASTE,
TARPAULING, OIL SHEETS, BRATTICE CLOTHS, &c. UNIVERSE WORKS, MILLWALL, POPLAR, LONDON, UNIVERSE WORKS, GARRISON STREET, BIRMINGHAY, No. 2, OSWALD STREET, GLASGOW.
OFFY OFFICE, No. 6, LEADENHALL STREET, LONDON, E.C.

GLAHOLM AND ROBSON,
HENDON PATENT ROPERY, SUNDERLAND,
UFACTURERS of ALL DESCRIPTIONS OF STREEL
IRON, and HEMP ROPES for COLLIERIES, SHIPS, &c.

#### Swan Rope Works.

R N O C K, B I B B Y, A N D C O.,
TACTURERS OF FLAT and ROUND HEMP and IRON and STEEL
PES for MINING, RAILWAY, and SHIPPING PURPOSES.
LA ROPE OF SUPERIOR QUALITY, FIFTY PER CENT. STRUNGER
FTY PER CENT. CHEAPER than Russian hemp rope.
ROPE OF FIRST QUALITY WIRE, and the HIGHEST STANDARD

TENT FLEXIBLE TUBING
AND BRACTICE CLOTH FOR MINES,

MANUFACTURED BY
ELLIS LEVER,

15/2

WEST GORTON WORKS, MANCHESTER. 133

TO COLLIERY PROPRIETORS.

CHARCOAL IRON AND STEEL WIRE ROPES,
Also HEMP ROPES, for MINING PURPOSES.

ELLIS LEVER, EST GORTON WORKS. MANCHESTER.

B. OWENS AND CO. (LATE CLINTON AND OWENS),

WHITEFRIARS STREET, FLEET STREET, LONDON, E.C.,
HYDRAULIC AND GENERAL ENGINEERS,
FACTURERS OF PUMPS OF EVERY DESCRIPTION FOR HAND, HORSE, STEAM, OR WATER POWER.



BORING TOOLS OF ALL DESCRIPTIONS, for Testing Ground and for Artesian Wells. PORTABLE, SINGLE, and DOUBLE BARREL, and

other PUMPS, and PORTABLE STEAM ENGINES. CRABS, CRANES, PULLEY BLOCKS, and HOISTING TACKLE,

ANY OF THE ABOVE CAN BE HAD ON HIRE

OR PURCHASE.

Full information, Drawings, Price Lists, &c., re-lating to the above, and to Hydraulic Machinery of all descriptions—Crabs, Pulleys, Blocks, and Holsting Tackie of superior manufacture—may be had on ap-sication.

FORD'S PATENT SAFETY-FUSE OBTAINED the ZE MEDALS at the ROYAL EXHIBITION of 1851, at the INTER-LI EXHIBITION of 1862, in London, and at the IMPERIAL EXIDED IN 1865.

BICKFORD, SMITH, AND CO., of TUCKINGMILL, CORNWALL, MANUFACTURERS of PATENT SAFETY-FUSE, having been informed that the name of their firm has been attached to fuse not of their manufacture, beg to call the attention of the trade and public to the following announcement:—EVERY COIL of FUSE MANUFACTURED by them DER, and BICKFORD, SMITH, AND CO. CLAIM SUCH TWO METHREADS AS THEIR TRADE MARK.

E CORNWALL BLASTING POWDER COMPANY, ST. ALLEN GUNPOWDER MILLS, TRURO,

ST. ALLEN GUNPOWDER MILLS, TRURO,

UFACTURERS OF PATENT BLASTING POWDER,
ORDINARY GUNPOWDER, AND WATERPROOF SAFETY

BLASTING CARTRIDGES.
ORNWALL BLASTING POWDER COMPANY SOLICIT PARTIATTENTION to their PATENT BLASTING POWDER, which has
fully tested by time, and the growing estimation in which it is held
ag men proves its great superiority over ordinary gunpowder.

1968 the following advantages:—
1968 the following advantages:—
1968 the following advantages:—
1978 THE CENT. LESS than ORDIUNPOWDER, and EQUAL in STRENGTH, bulk for bulk, au IMUNPOWDER, and EQUAL in STRENGTH, bulk for bulk, au IMUNPOWDER, and EQUAL in STRENGTH, bulk for bulk, au IMUNPOWDER, and this smoke being of a lighter nature soon passes
d an IMPORTANT SAVING is thus EFFECTED on the score of TIME
APTED to ANY SAVING is thus EFFECTED on the score of TIME
APTED to ANY SAVING is thus EFFECTED on the score of TIME
BY GUNPOWDER.

Tetlmonials forwarded on application.

RO-GLYCERINE OR NOBEL'S PATENT BLASTING

RO-GLYCERINE, OR NOBEL'S PATENT BLASTING

RO-GLYCERINE, OR NOBEL'S PATENT BLASTING L.—The EXPLOSIVE FORCE of this BLASTING OIL is TEN TIMES UNFOWDER, and the ECONOMY and SAVING In TIME, LABOUR, In removing granite and hard rock, in sinking shafts, driving tunopening forward in close ends is immense.

Lot explode from a spark or fire, but from concussion alone, and is community to the state of th

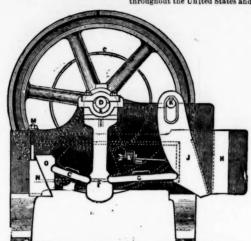
IMMENSE SAVING OF LABOUR.

TO MINERS, IRONMASTERS, MANUFACTURING CHEMISTS, RAILWAY COMPANIES, EMERY AND FLINT GRINDERS, McADAM ROAD MAKERS, &c., &c.

#### BLAKE'S PATENT STONE BREAKER, OR ORE CRUSHING MACHINE,

FOR REDUCING TO SMALL FRAGMENTS ROCKS, ORES, AND MINERALS OF EVERY KIND.

It is rapidly making its way to all parts of the globe, being now in profitable use in California, Washoe, Lake Superior, Australia, Cuba, Chili, Brazil, and throughout the United States and England. Read extracts of testimonials:—



The Parys Mines Company, Parys Mines, near Bangor, June 6.—We have had one of your stone breakers in use during the last twelve months, and Captain Moreom reports most favourably as to its capabilities of crushing the materialt to the required size, and its great economy in doing away with manual labour H. R. Marsden, Esq. James Williams.

H. R. Maraden, Esq.

Ecton Energy Works, Manchester.—We have used Blake's patent stone breake made by you, for the last 12 months, crushing emery, &c., and it has given wer; satisfaction. Some time after starting the machine a piece of the moveable law about 20 lbs. weight, childed cast-iron, broke off, and was crushed in the jaws the machine to the size fixed for crushing the emery.

H. R. Maraden, Esq.

Thos. Goldsworthy & Sons.

Alkali Works, near Wednesbury.—I at first thought the outlay too much to simple an article, but now think it money well spent. WILLIAM HUNT.

Welsh Gold Mining Company, Dolgelly,—The stone breaker does its work ad mirably, crushing the hardest stones and quartz.

WM. DANIEL.

Our 15 by 7 in. machine has broken 4 tons of hard whinstone in 20 minutes, for fine road metal, free from dust.

Messrs. Ond and Maddison, Stone and Lime Merchants, Darlington.

Kirkless Hall, near Wigan.—Each of my machines breaks from 100 to 120 tons limestone or ore per day (10 hours), at a saving of 4d. per ton.

JOHN LANCASTER.

Ovoca, Ireland.—My crusher does its work most satisfactorily. It will brea 10 tons of the hardest copper ore stone per hour. WM. G. ROBERTS.

General Frémont's Mines, California.—The 15 by 7 in. machine effects a saving of the labour of about 30 men, or \$75 per day. The high estimation in which we hold your invention is shown by the fact that Mr. Park has just ordered third machine for this estate.

For circulars and testimonials, apply to-

#### MARSDEN, SOHO FOUNDRY, H. R. MEADOW LANE, LEEDS,

ONLY MAKER IN THE UNITED KINGDOM.

#### PATENT NEW INJECTOR, THE

FOR FEEDING BOILERS AND RAISING WATER FOR OTHER PURPOSES.



SIDE ELEVATION.

[SPECIFICATION.]

This injector is a steam-pump, constructed on a principle entirely new and of great simplicity. The crank-shaft and fly-wheel are of small size, and the silde-valve is worked inside the steam chest by means of a steel crank and friction roller, thus dispensing with eccentric, rod, and straps. All the working parts are made of steel, hardened and polished. The cylinder and pump are in one easting, and bored throughout the body of the pump as well as the stuffing-box. The pump-ram is of the best gun-metal, being cast in one piece with the piston and piston-rod, and fitted accurately to the bored body of the pump, thus ensuring a nearly perfect vacuum in pumping. The stuffing-box glands are also of gunetal polished. The valves and boxes are of the best gun-metal, the valves being of the spherical description, the covers fitted with brass cages, and the joints faced metal to metal. The slide-valve is of hard bell-metal. The steam-chest, with cylinder end, is in one piece, and may be removed without disturbing either steam or exhaust pipes. The whole engine may be taken to pieces and put together under steam in fifteen minutes, without disturbing any pipes whatever.

PRICES, DELIVERED IN LONDON:—

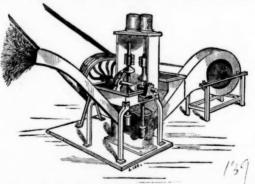
| 101  | Ran      | St   | roke | App   | rox. | h.p.   |     | App   | rox. ga | llons th | rown r | er ho | ur.     | The |    |
|------|----------|------|------|-------|------|--------|-----|-------|---------|----------|--------|-------|---------|-----|----|
| Size | in.      |      | in.  | poner | sul  | opnea. | At  | 100 I | ev.     |          |        |       | p. min. |     |    |
| 0. 4 | <br>136  | <br> | 3    | <br>  | 15   | *****  |     | 115   |         | 172      |        | 230   |         | £10 | 10 |
|      |          |      | 3    | <br>  | 22   |        |     | 180   |         | 270      |        | 360   |         | 12  | 12 |
| 6    | <br>1%   | <br> | 4    | <br>  | 30   |        |     | 240   | *****   | 360      |        | 480   | *****   | 14  | 14 |
|      |          |      | 4    | <br>  | 40   | ****** |     | 345   |         | 517      |        | 690   |         | 17  | 0  |
| 8    | <br>214  | <br> | 51/2 | <br>  | 55   |        |     | 475   |         |          |        |       |         |     |    |
| 9    | <br>21/2 | <br> | 51/2 | <br>  | 75   | *****  |     | 585   | *****   |          |        |       |         |     |    |
| 10   | <br>21/2 | <br> | 63/4 | <br>  |      | ****** |     | 720   | *****   |          |        | 1440  |         |     |    |
| 11   | <br>23/4 | <br> | 634  | <br>  | 110  |        |     | 870   |         | 1305     |        |       |         |     |    |
| 12   | <br>23%  | <br> | 8    | <br>  | 120  | *****  |     | 1030  |         | 1545     |        | 2060  |         | 31  | 10 |
|      |          |      |      | Ter   | ms   | : Nett | Cas | sh o  | n Deli  | verv.    |        |       |         |     |    |

All guaranteed to work efficiently, and any one failing to give entire satisfaction may be at once returned. This injector will force water at or under a temperature of 212° Fahr. It will draw water 15 ft., or by using one size larger than required for forcing the quantity, it will draw from a depth of 20 ft. It will work with a pressure of steam of 15 lbs. per square inch; to work at a lower pressure the next larger size must be used, which is made with a reduced ram. This instrument will not become encrusted through forcing bad water, and it will force semi-fluids. Any unskilled labourer may work it, and after starting it requires no attention. The ordinary speed of working is 150 revolutions per minute, but higher speeds may be used without harm to the engine. Larger sizes, and special pumps for throwing water into tanks, or for use as fire-engines, can be made in a few days. A circular, with full exp.anation and comparisons, will be sent on application.



BROWN, WILSON, AND CO., 80, CANNON STREET, E.C.; AND VAUXHALL IRONWORKS, LONDON, S.

CHILDS' PATENT



ATMOSPHERIC ORE STAMP AND QUARTZ CRUSHER.

THIS is an IMPROVED STAMP, and will give as many blows per minute as an ordinary 10-stamp mill, and of far greater force, giving an effective blow of from 150 to 200 tons per minute, and will crush any known ore to an impalpable powder, saving every particle of the product for future operations,—a result not before obtained by any stamping process. Greater economy is combined than by any other known method. The patentee has erected a machine near his office, where he invites (by appointment) experienced and practical miners, engineers, chemists, metallurgists, and all others interested, to inspect its results. Every facility will be given for experiments upon different ores, and all other substances to be crushed.

For particulars, address— A. B. CHILDS,

No. 48:, NEW OXFORD STREET, LONDON, W.C.

THOMAS ON AND



MANUFACTURERS OF CAST STEEL for PUNCHES, TAPS, and DIES, TURNING TOOLS, CHISELS, &c.

CAST STEEL PISTON RODS, CKANK PINS, CON NECTING RODS, STRAIGHT and CRANK AXLES, SHAFTS and

FORGINGS of EVERY DESCRIPTION. DOUBLE SHEAR STEEL | FILES MARKED NESTER STEEL, SPRING STEEL, GERMAN STEEL, WM. GREAVES & SON.

Locomotive Engine, Railway Carriage and Wagon Springs and Buffers

SHEAF WORKS AND SPRING WORKS, SHEFFIELD, 40
LONDON WAREHOUSE, 35, QUEEN STREET, CANNON STREET, CITY, E.C.,
Where the largest stock of steel, files, tools, &c., may be selected from.

CHEASE'S NEW AND IMPROVED PATENT BORING CREASE'S NEW AND IMPROVED PATENT BOR
MACHINE.—In consequence of the various and IMPORTANT
PROVEMENTS that an experience of several years has enabled the inv
to introduce into these machines, he can with the most perfect confidence
command them for their increased DURABILITY. SIMPLICITY. ECONO
and SPEED to be attained by their adoption in DRIVING LEVELS or DRI
The inventor has made arrangements to supply them in any quantity,
warrantry. Orders executed according to their date of priority.
Address, EDWARD S. CREASE, Tavistock, Devon.



#### PRENTICE'S GUN COTTON COMPRESSED CHARGES FOR MINING AND QUARRYING.

The principle thus introduced insures the most perfect attainment of the points essential for the safety and stability of the material, at the same time securing the highest effective power.

A charge of any given size exerts six times the explosive force of gunpowder.

The enormous power confined in a short length at the bottom of the hole allows of a much greater amount of work being placed before each blast, saving considerably in the labour of drilling.

Charges are made of every diameter required, the length varying with the diameter. Any number may be placed in a hole. Each charge is fully equal to one-fitth of a pound of powder.

Per case, containing 500 charges of any diameter.

Terms,—casb.

MANUFACTURED BY
THOMAS PRENTICE AND CO., 173, FENCHURCH STREET, LONDON.
WORKS, STOWMARKET.

BAGILLT OIL COMPANY (LIMITED FLINT.

MANUFACTURERS OF BLACK GREASE

FOR COLLIERY WIRE ROPES, TRAMS, WAGONS, &c., £5 PER TON.

TORCH AND LAMP OIL, 1s. PER GALLON (Casks free).

LUBRICATING OIL, 1s. PER GALLON (Casks free).

THE NEWCASTLE CHRONICLE AND NORTHERN COUNTIES ADVERTISER. (ESTABLISHED 1764.)
Offices, 42, Grey-street, Newcastle-upon-Tyne; 50, Howard-street, North Shields; 195, High-street, Sunderland.

ERVOUS DEBILITY: ITS CAUSE AND CURE.—Before seeking aid from the so-called remedies without racdicine, read this valuable work on the Treatment and Cure of Nervous and Physical Debility, Loss of Appetite, Pains in the Back, Spermatorrhea, &c., with Plain Directions for Perfect Restoration to Health. Sent post free to any address, on receipt of two postage stamps. Letters of enquiry or details of case promptly answered. Address, Dr. Smith, 8, Burton-crescent, London, W.C.

R. WATSON (of the Lock Hospital), F.R.A.S., Member of the College of Physicians and Surgeons, on the SELF-CURE of NERVOUS and PHYSICAL DEBILITY, Lowness of Spirits, Loss of Appetite, Timidity, Incapacity for Exertion, &c., with mean ifor periect restoration. Sent free for two stamps by Dr. WATSON, No. 1, South-creecent, Bedford-square, London Consultations daily from 11 till 3, and 6 till 8; Sundays, 10 till 1.

Just published, post free for two stamps,

WONDERFUL MEDICAL DISCOVERY, demonstrating the
true causes of Nervous, Montal, and Physical Debility, Lowness of Spirits/
Indigestion, Want of Energy, Premature Decline, with plain directions for perfect restoration to health and vigour, WITHOUT MEDICINE. Sent free ou receipt of two stamps, by W. HILL, Esc., M.A., Berkeley House, South-crescent,
Russell-square, London, W.C.

ONSULT DR. HAMMOND (of the Lock Hospital, &c.), No. 11, Charlotte-street, Bedford-square, London, W.C., In all those allments which tend to embitter and shorten life, and especially those termed peculiar and confidential. At home, Nine to Two, and Six to Eight; Sundays, Ten to Twelve The "Self-Curative Guide" post free, two stamps.

N.B.—Cases of recent infection cured in two days.

CURE YOURSELF BY THE PATENT SELF-ADJUSTING CURATIVE AND ELECTRIC BELT.—Sufferers from nervous debility, painful dreams, &c., can now cure themselves by the only guaranteed remedy in Europe, protected by Her Majesty's great seal. Free for one stamp by H. James, Esq., Percy House, Bedford-square, London.

N.B.—Medicines and fees superseded.

14/2



143

ξ, GOW.

HERS-OUNDS of PUR

M P.-

RCH

#### THE MINING SHARE LIST.

#### BRITISH DIVIDEND MINES.

| P. 2   |                 |   |  |
|--|-----------------|---|--|
| Shares. Mines.   | Paid. 1         | Last Pr. Business                       | . Total divs. Per share. Last paid.                |
| 500 Alderley Edge, c, Cheshire*  | 10 0 0          |   | 8 12 8 0 5 0 Jan. 1867                             |
| 200 Botallack, t, c, St. Just  | 91 5 0          |   | 488 15 0 5 0 0 May, 1866                           |
| 10000 British Slate Company  | 10 0 0          |   | 9 per cent Sept. 1866                              |
| 4000 Brookwood, l  | 1 11 0          |   | 0 5 0 0 2 6 Sept. 1866                             |
| 1000 Bronfloyd, I, Cardigan*   | 12 0 0          |   | 8 7 0 0 6 0 Aug. 1866                              |
| 6400 Cashwell, I, Cumberland*  | 2 10 0          |   | 0 1 6 0 1 6 Aug. 1866                              |
| 916 Cargoll, s-l, Newlyn   | 15 5 7          | 10 11                                   | 13 15 0 1 0 0. Feb. 186f                           |
| 1867 Cwm Erfin, l, Cardiganshire*  | 7 10 0          |   | 21 18 0 1 0 0 Jan. 1867                            |
| 128 Cwmystwith, l, Cardiganshire   | 60 0 0          |   | 376 10 0 4 0 0 Feb. 1867                           |
|  | 300 0 0         |   | 167 0 0 5 0 0Oct. 1866                             |
| 1024 Devon Gt. Consols, c, Tavistockt                                    | 1 0 0           | 420 380 390                             | 1054 0 0 6 0 0 Mar. 1867                           |
| 358 Dolcoath, c, t, Camborne   | 128 17 6        | - ··· · · · · · · · · · · · · · · · · · | 821 10 0 8 0 0 Feb. 1867                           |
| 6144 East Caradon, c, St. Cleert   | 2 14 6          | 51/2 5 51/8                             | 14 7 6 0 2 0Jan. 1867                              |
| 300 East Darren, l, Cardiganshire  | 32 0 0          |   | 138 10 0 2 0 0 Jan. 1867                           |
| 128 East Pool, t, c, Pool, Illogan<br>5000 East Rosewarne, c, t, Gwinear | 2 15 0          |   | 392 10 0 2 10 0 Mar. 1867                          |
| 1906 East Wheal Lovell, t, Wendron                                       | 3 9 0           | 11 :: 10 11                             | 0 10 6 0 1 6Jan. 1866                              |
| 2800 Foxdale, l. Isle of Man*  | 25 0 0          |   | 2 76 0 76 May, 1866                                |
| 5000 Frank Mills, l, Christow  | 3 18 6          | = ::                                    | 70 0 0 0 10 0. Mar. 1867<br>3 5 6 0 5 0. Feb. 1866 |
| 15000 Great Laxey, l. Isle of Man*                                       | 4 0 0           | 171/ 17 10                              |  |
| 5908 Great Wheal Vor. t. c. Helstont                                     | 40 0 0          | 22 191/2 201/2                          | 11   |
| 1024 Herodsfoot, l, near Liskeardt                                       | 8 10 0          | 99                                      | 40 10 0 1 10 0 10-6 1000                           |
| 6000 Hingston Down, c t  | 5 10 6          | - ::                                    | 0 10 0 0 5 0 April,1866                            |
| 400 Lisburne, I, Cardiganshire   | 18 15 0         |   | 486 10 0 8 0 0 Jan. 1867                           |
| 9000 Marke Valley, c. Caradon  | 4 10 6          | 414 416 416                             | 3 11 0 0 2 0Jan. 1867                              |
| 2000 Minera Boundary, I Wrexham*   | 1 0 0           |   | 0 13 0 0 3 0 Mar. 1866                             |
| 1800 Minera Mining Co. l, Wrexham*                                       | 25 0 0          | 180 150 160                             | 208 13 0 3 5 0. Feb. 1867                          |
| 20000 Mining Co. of Ireland, c, l, cl                                    | 7 0 0           | 161/2 163/4                             | 0 5 7Jan. 1867                                     |
| 40000 Mwyndy Iron Orest  | 3 5 0           |   | 0 6 6 0 2 6 Mar. 1866                              |
| - New Merrybent and Middleton*   | 3 10 0          |   | 5 per cent Nov. 1866                               |
| 200 Parys Mines, c, Anglesey*  | 50 0 0          |   | 157 10 0 5 0 0 Jan. 1866                           |
| 6000 Prosper United, t, c, St. Hilary                                    | 8 14 0          | 314 31/8 31/8                           | 0 5 0 0 5 0 Feb. 1867                              |
| 1120 Providence, t, Uny Lelant   | 10 6 7          | 35 30 33                                | 82 7 6 0 10 0 Feb. 1867                            |
| 512 South Caradon, c, St. Cleert   |                 | 325 300 320                             | 550 10 0 6 0 0 Mar. 1867                           |
| 6000 South Darren, l   | 3 6 6           | **                                      | 0 5 6 0 2 6 June, 1866                             |
| 6000 Tincroft, c, t, Pool, Illogant                                      | 9 0 0           | 15 15 16                                | 18 11 0 0 5 0 Jan. 1867                            |
| 3000 W. Chiverton, l, Perranzabuloet.                                    | 10 0 0          | 61 68 70                                | 17 7 6 2 0 0 Feb. 1867                             |
| 400 West Wheal Seton, c, Cambornet.<br>512 Wheal Basset, c, Illogant     | 5 2 6.          | 135 140                                 | 467 0 0 2 10 0 Feb. 1867                           |
| 1024 Wheal Friendship, c, Tavistock                                      |                 | 66 65 671/2                             | 622 0 0 1 0 0Oct. 1866                             |
| 4295 Wheal Kitty, t, St. Agnes   | 20 0 0<br>5 4 6 |   | 300 10 0 0 10 0Nov. 1866                           |
| 1024 Wheal Mary Ann, I, Menheniott                                       | 8 0 0           | 14 12 14                                | 3 1 0 0 2 0. Feb. 1867                             |
| 2000 Wheal Rose, c, Scorrier   |                 | 10                                      | 61 0 0 0 12 6 Mar. 1867                            |
| 396 Wheal Seton, t, c, Camborne  | 58 10 0         | 1071/2 104 106                          | 1 0 0 0 10 0 Feb. 1866<br>289 5 0 3 10 0 Feb. 1867 |
| 1040 Wheal Trelawny, 8-1, Liskeardt                                      | 5 17 0          | 101/2 104 106                           |  |
| 7000 Wicklow, c, i, Wicklow  | 2 10 0          | 24                                      | 45 15 0 0 18 0 Oct. 1866                           |
|  |                 |   | 10 10 0 0 18 0000. 1866                            |

#### FOREIGN DIVIDEND MINES.

| 5000 Cape Copper Mining*t                 | 7    | 0 0     | 7       | 61/2 71/2          |     | 2 12 6 0 10 0 April, 1866 |
|---|------|---------|---------|--------------------|-----|---------------------------|
| 100000 Don Pedro No. del Rey, Brazil*+;   | 0    | 14 0    | 914     | 198. 218.          |     | 0 0 0 0 0 0 0             |
| 25000 Fortuna, 7. Spain*†                 |      | 0.0     |         |                    |     |                           |
|   |      | 0 0     | 21/2    |                    |     | 1 5 4 0 2 0 Oct. 1866     |
| 70000 English and Australian, et          | 2    | 10 0    | 78      | 1/2 3/4            |     | 1 13 0 0 1 0 Feb. 1867    |
| 20000 Gen. Mining Assoc., Nova Scotlat    | 20   | 0 0     | 20      | 18 20              |     | 99 00 1 00 Tune tone      |
| 10000 Gonnesa, 1,* [5000 £5 pd., 5000 £4] | 1 10 |         |         | 10 20              |     | 22 0 0 1 0 0 June, 1866   |
|   | ba.l |         |         |                    |     | 71/2 per cent. per annum. |
| 15000 Linares, t, Spain*†                 | 3    | 0 0     | 11/4    | 1 11/6             |     |                           |
| 30000 Pestarena, g*†                      | 2    | 0 0     | 134     |                    |     | 0 9 6 0 9 6 36- 1000      |
| 50000 Panulcillo, c*†                     | 9    | 0 0     |         | 0.017              |     |                           |
| 10000 Pantalband of Pantal                |      |         |         | 2 21/2             |     | 10 per cent Yearly.       |
| 10000 Pontgibaud, s-l, Francet            | 20   | 0 0     | 81/2    | 8 81/6             |     |                           |
| 100000 Port Phillip, g, Clunest           | 1    | 0 0     | %       | 56 76              |     |                           |
| 120000 Scottish Australian Mining Co.t.   | 1    | 0 0     |         | 9'8 7'8<br>3'4 7'8 |     | 0 10 0 0 1 0an. 1867      |
|   | -    |         | 11/8    |                    | 1.0 | 71/2 per cent Mar. 1867   |
| 11000 St. John del Rey, Brazil*†          | 10   | 0 0     | 55      | 55 56              |     | 72 15 0 4 0 0 Dec. 1866   |
| 50000 Victoria (London) [25000 £1 pd., 28 | 5000 | 128. 6d | . pd. 1 |                    |     |                           |
| 40000 West Canada Mining Company          | 1    |         |         |                    |     | 0 10 6 0 1 0 3 11. 1866   |
| soco mete canadan zaming company          | *    | 0 040   |         |                    |     | 0 19 6 0 2 6 May, 1865    |
|   |      |         |         |                    |     |                           |

#### NON-DIVIDEND FOREIGN MINES.

| Shares, Mines,  | Paid. Last Pr. Bim. done. Last Ca | . 22 |
|---|-----------------------------------|------|
| 35000 Alamillos, 7, Spain*+                                   | 2 0 0 % 116 . Fully r             | ui.  |
| 100000 Anglo-Brazilian, g*†                                   |                                   | pa.  |
| 10000 Alten and Quænangen United, c*1                         | 4 10 0                            | 866  |
| 20000 Australian, c, South Australiatt                        |                                   |      |
| 40000 Brittany Silver-Lead Mines, France* [15750 18s. pd.]    |                                   |      |
| 2464 Burra Burra, c, South Australia;                         |                                   |      |
| 25000 Capula, s, Mexico*†                                     | 3 0 0                             |      |
| 30000 Chontales g, s, Nicaragua*†                             | 1 12 0Aug. 18                     |      |
|   | 3 76 3 8 3 Feb. 18                | 867  |
| 12000 Cobre Copper Company, c, Cubatt                         | 40 10 0                           |      |
| 10000 Copiapo Mining Company, Chilit:                         | 16 10 0                           |      |
| 10000 Coptapo Smelting, Chill                                 | 10 0 0 April, 18                  | 366  |
| 300 Copper Miners' Co. of South Australia* [150 £100 pd.,     |                                   |      |
| 25000 East del Rey, g, Brazil*†                               | 2 15 0 June, 18                   | 366  |
| 21500 East Indian Coal, Calcutta                              | 10 00                             |      |
| 15000 El Chico Silver Mining and Reduction Company            | 5 0 0 Nov. 18                     | 866  |
| 8000 English and Canadian Mining Company*                     | 5 0 0 Fully n                     |      |
| 50000 Frontino and Bolivia, g, New Granada*†                  | 1 12 6 — Dec. 18                  | 866  |
| 80000 Great Northern, c, South Australia                      | 1 11 6 Sept. 18                   | 162  |
| 10000 Great Barrier Land, Mining, &c., New Zealand            | 5 0 0 Fully p                     | d.   |
| 68000 Kapunda Mining Co., Australiatz                         | 1 00                              |      |
| 7927 Lusitanian (Portugal) :                                  | 3 0 0                             | - 1  |
| 83090 Mariquita   | 0 12 6Jan. 18                     | 167  |
| 12500 Nerbudda Coal and Iron** [6000 £5 pd., 6500 £4 pd.]     | 5 4 5 Ang. 18                     |      |
| 50000 Nova Scotia Land and Gold*                              | 1 15 0 Sept. 18                   |      |
| 15000 Otea, c, New Zealand* [5000 fully paid]                 | 1 10 0 Appell 10                  |      |
| 6000 Peel River Land and Mineral* 1                           | 100 0 0 38 35 38 Stock.           | -    |
| 51000 New Quebrada, c, Venezuela*                             | 3 10 0                            |      |
| 10178 Rhenish Consolidated, l [6000 £5 pd., 4178 £2 10s. pd.] | May, 18                           | 999  |
| 50000 Rossa Grande, g, Brazil*                                | 0 10 0 Mar. 18                    |      |
| 15000 San Pedro del Monte, s, Mexico*                         | 4 0 0 Sept. 18                    |      |
| 10000 San Roque, l, Spain                                     | 5 0 0 Fully p                     |      |
| 1000 Schlossberg Colliery*                                    | 10 00                             |      |
| 43174 United Mexican, s. Mexico +                             | 28 5 0 2% 2% 3                    | - 1  |
| 10000 Vancouver, cl*†2  | 6 0 0 3 9 3                       | - 1  |
| 30000 Val Antigoria, g*†                                      | 0 17 6July, 180                   | 00   |
| 6000 Val Sassam. s. c. l**                                    | 6 10 0 Jan. 18                    |      |
| 5000 Valgodemard Mining Company*                              | 20 0 0 Fully po                   |      |
| 50000 Vallanzasca, g. Italy*†                                 | 0 17 6 July, 180                  |      |
| 45000 Victor Emanuel, c, Italy*                               | 1 0 0                             | 00   |
| 20000 Washoe, gt  | Eurly pe                          |      |
| 80000 Worthing, c, South Australia * +                        |                                   |      |
| 75000 Yorke Peninsula, South Australia                        |                                   | d.   |
| 45000 Yudanamutana, c, S. A.* t                               | 3 0 0 1% 4 1 Fully po             | u.   |
|   |                                   | i    |
|   |                                   |      |

#### BANKS AND FINANCIAL COMPANIES.

| Shares. Banks.                                     | 7   | aid. | L   | ast P    | v.  | Harn | deni  |      |
|--|-----|------|-----|----------|-----|------|-------|------|
| 40000 Alliance*†                                   | 9.5 | 0.0  |     | 16       |     | 1414 | 1514  |      |
| 40000 Australian Mort, Land and Finance            | 15. | 0 0  |     | 516      |     |      | 151/2 |      |
| 30000 Australasia†                                 | 40  | 0.0  |     | 66       |     | 62   | 64    | ••   |
| 10000 Bank of Egypt†                               | 9.5 | 0.0  | -   |          |     |      | 34    | ••   |
| 50000 Bank of New Zealandt                         | 10  | 0.0  |     | 19       |     |      |       |      |
| 25000 Bank of Otago*†                              | 10  | 0 0  |     |          |     | 314  |       | **   |
| 20000 Bank of Victoria, Australia                  | 9.5 | 0.0  |     | 39       |     |      | 39    |      |
| 20000 British North Americant                      | 50  | 0 0  |     |          | **  |      | 50    |      |
| 8915 Canada Companyt                               |     | 10 0 |     |          |     |      | 71    |      |
| 50,000 Canadian Loan and Investment*               | 2   | 10 0 |     | 12       |     | 0.0  | *1    |      |
| 4,000 Chartered Bank India, Australia, and Chinat  | 90  | 0 0  |     | 1616     |     | 1.0  | 17    |      |
| 30000 Chartered Merc. of India, London and Chinat  | 98  |      |     | 33       |     | 20   |       |      |
| 50000 City†  | 10  | 0 0  |     |          |     | 11   |       | **   |
| 2000C Colonialt                                    | 0.5 | 0.0  |     |          |     |      |       |      |
| 40000 Company of African Merchants.*†              | 25  | 0.0  |     | 3        |     |      | 37    |      |
| 150000 Consolidated Bank*†                         | - 0 | 0 0  |     | 454      |     | 256  |       |      |
| 50000 ditto New*†                                  | 3   | 0 0  |     |          |     | 436  | 43%   |      |
| 200000 Credit Foncier and Mobilier of England*†    | 0   | 0 0  |     | 3        |     | 256  | 879   | 0.0  |
| 20000 East London*                                 | 9   |      |     |          |     | 278  | 279   |      |
| 30000 English, Scottish, & Aust., Chart.           | 90  | 0 0  |     | 375      |     | 2iZ  | 81/2  |      |
| 20000 English and Swedish*†                        | 20  |      |     | 17%      |     | 1436 | 17    |      |
| 20000 Imperial Bank*†                              | 20  |      |     | 15       |     | 22   | 10%   |      |
| 202500 Imperial Ottoman†                           | 20  | 0 0  |     | 24       |     |      |       |      |
| 150000 International Financial Society*†           | 10  | 0 0  |     | 834      |     | 814  | 0.54  |      |
| 3000000 International Land Credit*                 | 5   | 0 0  |     | 25/8     |     | 29/4 | 278   |      |
| 50000 London Chartered Bank of Australia†          | 6   | 0 0  |     |          |     | 3    |       |      |
| 37500 London and County                            | 20  | 0 0  |     | 23<br>57 |     |      |       |      |
| 40000 London Financial Association*†               | 20  |      | **  | 716      |     | 86   |       |      |
| 72000 London Joint-Stockt                          | 20  |      |     | 42       | ••  | 40   |       | **   |
| 5000 London and River Plate*†                      | 10  | 0 0  |     | 45       |     | 43   |       |      |
| 20000 ditto ditto New, issued at 11/2 prem. **     | 10  |      |     |          |     |      |       |      |
| 20000 ditto ditto New*†                            | 10  | 0 0  |     | 11       | * * | 10   |       | 0.0  |
| 10000 London and South-Western*                    | 10  |      |     | 19       |     |      |       | 0.00 |
| 5000 London and Venezuela*                         | 20  | 0 0  | **  | 13       |     | 18   | 13    |      |
| 50000 London and Wostenington                      | -   |      |     |          |     | 92   | 64    |      |
| 50000 Mercantile and Exchange*†                    | 20  | 0 0  |     | 51/4     | • • | 3    |       |      |
| 10000 Merchant*                                    | 12  |      |     | 17       |     | 16   |       | **   |
| 5000 dltto New*                                    | 20  | 0 0  |     | 11       | * * |      | 11    |      |
| 17156 Metropolitan and Provincial*+                | 20  | 0 0  |     | 9        |     | 714  |       |      |
| \$000 Midland*†                                    | 20  | 0 0  |     |          | **  | 017  | 201   |      |
| 20000 National of Australia                        |     |      | • • | 191/2    |     |      | 1914  |      |
| 20000 National of Liverpool*†                      | 12  |      |     | 151/4    |     | 5    |       |      |
| 10000 National Provincial of Englands              | 460 | 0 0  |     |          |     | 378  | 141/4 |      |
| 55000 ditto ditto od and to turne                  | 92  |      |     | -        |     |      |       |      |
| 55000 ditto ditto 2d and 3d issue †                | 13  | 0 0  |     |          |     | -    |       |      |
| 50000 New South Walest                             | 30  | 0 0  |     |          |     | 63   |       |      |
| 60000 Oriental Bank Corporation†                   | 20  |      |     |          |     | 44   |       |      |
| 27210 Provincial Banking Corporation*†             | 10  | 0 0  |     |          | - 0 | 40   |       |      |
| 20000 Provincial of Ireland                        | 10  | 0 0  |     | 85       |     | 3    |       |      |
| 10000 ditto ditto Newt                             | 20  |      |     | 85       |     | 63   | 99    |      |
| 4060 Union of Australiat                           | 10  |      |     |          | 0.0 |      |       |      |
| 10000 Union of Ireland*†                           | 0.0 |      |     | 48       |     | 46   |       |      |
| 80000 Union of Londont                             | 1.5 |      |     | 14       | 0.0 | 12   |       | **   |
| as maximized #000000000000000000000000000000000000 | 19  | 0 0  |     | 441/2    |     | 43   | 21    |      |

| PRO | GRESSIVE | MINES. |
|-----|----------|--------|

| υ,                  | RAILWAI AND COMME  | RCIA  | L GAZETTE.   | MARCH 30, 1  |
|---------------------|--|---|--|--|
|                     | PROGRESSIVE MINES.   |   | Shares. Mines. 6138 So. Condurrow, t, c, Camb.   | Paid. Last Pr. Bus. don<br>3 13 6. 1 . 178 198   |
| _                   | Shares. Mines. Paid. Last Pr. Bus. don<br>4000 Ballacorkish, I. of Man, l, c* 2 0 0  | ne. Last Call.<br>Jan. 1867   | 2283 South Crenver, c, Crowan<br>6000 S.Dolcoath&Carnarth.Con.   | 2 16 6 —   |
|                     | 3000 Bedford Unit., c, Taylstk.* 2 6 8   | Nov. 1866   | 5000 So. Exmouth, l, Christow  | 2 17 0 —   |
| id.                 | 500 Billins, l, Flint  | Fully pd.   | 1024 So. Herodsfoot, l, Liskeard<br>4000 South Minera, l, Wrexham*   | 5 0 0  |
| 867<br>866          | 5000 Bottle Hill, t, Plympton 1 14 6 —<br>200 Brynford Hall, t, Flint 28 0 0   | June, 1866<br>Jan. 1866   | 30210 South of Scotland, c*  | 0 17 6   |
| 866<br>866          | 500 Bryn Gwiog, l, Flint 9 0 0 20 16 18  | June, 1864  | 3000 South Trevenna, c, t<br>937 So. Wh. Crofty, c, Illogan.<br>496 So. Wh. Frances, c, Illog. †2  | 18 18 9 19 17 19   |
| 866<br>866          | 20000 Caldbeck Fells / Cumber # 1 10 0 - 54 74   | Dec. 1866   | 6000 South Wheal Grenville, t, c<br>400 So. Wh. Seton, c, Camborne   | 0 18 0 10s<br>74 18 0 —  |
| 866<br>867          | 1000 Camborne Consols, C 18 10 0 —   | Feb. 1864<br>Mar. 1867  | 512 South Tolgus, c, Redruth<br>64 Spearne Consols, t, St. Just  | 9 10 0   |
| 867<br>866          | 11000 Cape Cornwall, t, c* [8000 £2 10s. pd., 3000 10s. pd.]<br>914 Caradon Cons., c, St. Cleer 32 3 6   | Oct. 1866<br>Feb. 1867  | 280 Spearne Moor, t, St. Just<br>4000 St. Day Unit., t, Redruth  | 17 7 6 — ::  |
| 867<br>867          | 1000 Carn Brea, c, t, Illogant 25 0 0 14 11 13 6000 Carn Camborne, c, Cambn. 2 1 0 —   | Nov. 1866<br>Jan. 1867  | 940 St. Ives Consols, t, St. Ives;<br>673 St. Ives Wheal Allen, t  | 18 10 1 — 9 10   |
| 867<br>867          | 5000 Carnaryonshire, I* 4 0 0 —  | Fully pd.<br>April,1866   | 7000 St. Just Cons. t [6000 £1 pd.   | 4 10 0 —   |
| 867<br>866          | 20000 Carysfort [3200 £21/2 pd., 16800 £1% pd.]  | Sept. 1866<br>Mar. 1865   | 6000 South Wheal Grenville, t, c 400 So. Wh. Seton, c, Camborne 512 South Tolgus, c, Redruth. 61 Spearne Consols, t, St. Just 280 Spearne Moor, t, St. Just 280 Spearne Moor, t, St. Just. 4000 St. Day Unit., t, Redruth. 940 St. Ives Consols, t, St. Ivest 673 St. Ives Wheal Allen, t 9000 St. Just Cons. t, 6000 £1 pd 7000 Stiperstones, t, Salop* 920 Stray Park, c, t, Camborne t 5300 Tin Hill, t, St. Austell 6000 Tolearne, c, Camborne 548 Trelyon Consols, t, St. Ives  | 1 8 0  |
| 866<br>867          | 2500 Central Minera, l* 2 18 0 —<br>2500 Central Minera, l* 3 12 6 —   | Aug. 1866   | 548 Trelyon Consols, t, St. Ives.  | 16 0 0 4 34  |
| 866<br>867          | 16000 Central Snailbeach l* 1 0 0 — 3000 Chiverton, l, Perranzabu. 9 5 0 734 3000 Chiverton Moor, l, Perranz. 6 3 6 738 536 536  | Fally pd,<br>Feb. 1867  |  |  |
| 867<br>867          | 3000 Chiverton Moor, l, Perranz. 6 3 6. 778518 518 2000 Chiverton Wheal Hope, l. —   | Feb. 1867   | 4440 Trevenen & Tremenheere<br>4096 Treweatha, s-l, Menheniot.<br>1943 Trewerlis, t, Wendron<br>2000 Trumpet Cons., t, Helston.  | 11 15 4  |
| 866<br>867          | 2000 Chiverton Wheai Hope, t   | ::  | 4000 Vigno and Clogan e Dolg 9   | 5 0 0  |
| 867<br>866          | 256 Condurrow, c, t, Cambornet 76 10 0 17 15 17 5000 Connorree, c, sul, Wicklow* 1 0 0 13s 6d  | Fully pd.   | 60000 Welsh Gold, Dolgelly*  | 1 0 0  |
| 867<br>867          | 1024 Copper Hill, c, Redruth‡ 12 10 0  | July, 1866<br>June, 1866  | 60000 Welsh Gold, Dolgelly* 6000 West Basset, c, Illogan†: 1024 West Caradon, c†: 40000 West Clogan, g, Merioneth.   | 15 12 6 10 9 91/4  |
| 866<br>866          | 1055 Craddock Moor, c, St. Cleer‡ 11 19 0  | Mar. 1867   | 9950 W Conductor t c Cam   | 19 11 8  |
| 866<br>867          | 861 Crane, c, Camborne 33 9 6—<br>12000 Crelake, c, Tavistock 3 8 0—   | Dec. 1866<br>July, 1866   | 2850 W. Condurrow, t, c, Cam<br>256 West Damsel, c, Gwennap.<br>12800 West Drake Walls, c<br>2592 West Great Work, t*  | 38 10 0  |
| 867<br>867          | 35000 Dale, I, North Stafford 1 0 0  | Oct. 1866<br>Fully pd.  | 5000 Wost Godolphin, t. C.   | 3 4 3 4 3 34   |
| 866<br>867          | 5000 Devon Great Maria* 7 0 0  | Oct. 1866<br>May, 1866  | 6000 West Great St. George, c  | 3 8 0  |
| 867<br>867          | 12800 Drake Walls, t, Calstockt 2 5 0 34 1/2 34  | Mar. 1867   | 1000 West Nanty, to  | 10 0 0   |
| 866<br>8 <b>6</b> 6 | 20000 Dolfrwynog, g* 0 15 0  | Dec. 1866<br>June, 1864<br>Feb. 1867  | 12800 West Prince of Wales, c<br>1000 West Rose Down, c, Linkin.   | 17 0 0   |
| 867<br>867          | 3000 Dyfngwm, l, Wales 13 7 0  | June, 1866  | 6000 West St. Ives, t, c   | 0 5 0 1 34 1 .   |
| 866<br>867          | 512 East Basset, c, Redruthtt., 29 10 0., 22 18 20   | July, 1866  |  |  |
| 867<br>866          | 6000 E. Rottle Hill t. Plympton 0 8 6. 4. 8s. 10s.   | . Dec. 1866   | 512 W. Wh. Frances, t, Illogani<br>5000 W. Wh. Kitty, t, St. Agnes.<br>1360 W. Wh. Prosper, t, Lanivet   | 2 15 6 9s 7s 8s .<br>5 18 0 —  |
|                     | 6000 E. Carn Brea, c, Redruth; 3 15 0 2%2% 2% 4000 East Chiverton I. Perranz. 9 11 9 2   | July, 1866<br>Mar. 1867   | 6000 Wheal Agar, c, Illogan  | 2 0 0 214 . 2 214  |
|                     | 4000 E. Grenville, c, Camborne. 3 6 6. 2½ 2¾ 3 4000 E. Gunnislake & S. Bed. c. 9 4 6 —   | Feb. 1867   | 6000 Wheal Agar, c, Illogan<br>6000 Wheal Alice Alfred, t, c<br>6000 Wheal Basset Consols, c<br>1000 Wheal Basset and Grylls, t  | 0 5 0 —<br>7 18 6 —  |
| 866<br>864          | 6000 East Layev I Isle of Man* 2 10 0  | . Dec. 1865   | 2000 Wheal Crober e Taylstock  | 2 6 6 98 11a   |
| 866<br>867          | 3986 E. Providence, t, Uny Lel. 5 1 9  | Feb. 1867   | 6144 Wh. Damsel, c, t, Gwennap<br>4096 Wh. Edward, c, Calstock   | 9 1 6  |
| 866                 |  | Oct. 1865<br>Nov. 1866  | 849 Wheal Emily Henrietta, c.<br>4000 Wh. Emma, c. Buckfastlei.  | 16 15 0 10<br>3 19 0 —   |
| 865<br>867          | 256 East Toigus, c, Redruth 96 0 0 —   | Jan. 1865   | 1024 Wh. Exmouth, I, Christow;   | 9 15 6 114 1 114   |
| y.<br>866           | 4000 E Wh Russell Taylstockt 11 16 6 3% 3 34   | Jan. 1867   | 6000 Wheal Ida, s-l, St. Ive<br>1024 Wh. Kitty, t, Uny Lelantt.  | 3 10 6 31/4  |
| 867                 | 6000 Furze HillWoodCon, Ruckl. 1 16 0  | .Feb. 1867<br>.Feb. 1866  | 896 Wh. Margaret, t. Uny Le.1  | 13 17 6 8 78   |
| 866<br>866          | 4096 Garlidna Unit., t. Wendron 5 7 7  | Mar. 1865<br>Feb. 1866  | 728 Wheal Margery, t, c  | 24 4 10. —<br>36 2 6 —   |
| 65                  | 6000 Gen. Min. Co. for Ireland. c 4 0 0  | .Feb. 1866  | 1000 Wheat Mary Florence, c*<br>1000 Wh.Mary Hutchins, c, Plym.  | 1 5 6 —  |
|                     | 40000 Glasgow Caradon c* [30000 £1 pd., 10000 10. pd.]   | Sept. 1866<br>Feb. 1867   | 80 Wheal Owles, t, St. Just2   | 70 0 0   |
| n.                  | 6000 Gothic, s-l, Cardigan 2 10 0 —<br>486 Grambler and St. Aubyntt 71 0 0 541/4 43/4<br>4096 Great Caradon, c, St. Ive. 3 13 0 —  | Fully pd.<br>Mar. 1867  | 6000 Wheal Sparnon, c. Redruth   | 3 0 0  |
| 666                 | 3000 Gt. East Lovell, t, Helston 2 1 0   | .Feb. 1867<br>.Nov. 1866  | 1920 Wh. Trannack, c, Sithney.<br>1200 Wheal Trevenna, t, c*<br>4096 Wheal Uny, t, c, Redruth  | 1 13 3 —<br>9 0 0 —<br>10 16 0 214 176 178   |
|                     | 5000 Great Mona, l, Isle of Man* 3 10 0  | . June, 1866<br>. Feb. 1867   | 4096 Wheal Uny, t, c, Redruth  |  |
| 0.0                 | 12500 Gt.No. Laxey(Isle of Man)* 0 12 6 1½1¼ 1½ .4800 Great Retallack, s-l, b 1 19 0 3¼ 3 3½ .   | .Jan. 1867  | _  |  |
| 66<br>67            | 6000 Great South Chiverton, s.I. 1 12 6  | .Jan. 1867  | MIGGET   | ANDONE   |
| 66                  | 3313 Great Wheal Baddern, t 7 17 6 —   | June, 1863<br>Mar. 1867   |  | LANEOUS.   |
| 66                  | 119 Great Work, t, Germoe100 0 0   | Aug. 1866   | 60000 Anglo-American Telegr.*†<br>20000 Anglo-Mexican Mint†<br>600000 Atlantic Telegraph*†1  | 10 0 0 16 15 16 16 15  |
| 66                  | 6068 Gwydyr Park, l, Llanrwst 1 13 0   | Nov. 1866<br>Nov. 1866<br>Sept. 1864  | 20000 Atlantic Telegraph*†1  | 20 10 0 19 17 19   |
| 66<br>d.            | 6400 Harwood I Durham* 0 6 0 % %   | .Sept. 1864<br>.Mar. 1866   | 20000 Australian Agriculturalt.<br>47000 Berlin Waterworks*†<br>25000 Bolckow, Vaughan*†<br>6000 British American Landt.   | 22 10 0 16%  |
| 62<br>d.            | 6000 Hlogan, t. c  | June, 1866  |  |  |
|                     | 3000 Leawood, c. I. Lydford 3 36   | Jan. 1866<br>June, 1866<br>Mar. 1866  | 25000 Ceylon Company*†   | 10 0 0 101/2 9 10  |
| 67<br>65            | 1619 Leeds and St. Aubyn, t, c 19 13 4   | .Mar. 1866<br>.June, 1866   | 25040 British Shipowners;<br>25000 Ceylon Company*†<br>12000 ditto Ashares*†<br>27000 ChinaStm.*ship&Lab.Coal†<br>20000 City Discount*†  | 11 0 0 2 1/2 56  |
| 65<br>66            | 160 Levant, c, t, St. Just 10 8 1  | Jan. 1866   | 20000 City Bondon Real Frop. 4   | 0 0000 - 00 0000   |
| -                   | 6000 Maudilin, c. Lostwithiel 4 7 0  | .May, 1865<br>.Jan. 1866  | 35000 City of Moscow Gas*†<br>20000 City Offices*†<br>50000 Commercial Uni. (Insu.)†   | 5 0 0 44 34 44   |
| 66                  | 640 Mount Pleasant I Wold 4 00 -   | Feb. 1867   | 42000 Copper Miners of Eng. † [200   | £25 pd., 40000£100 pd.]  |
| 66<br>d.            |  | Aug. 1866   | 1002925Crystal Palacet   | 00 0 0 27 25 27  |
| -                   | 12800 Nether Hearth* [6400 £1 pd., 6400 2s. pd.] 1/4 1/8 6000 New Birch Tor & Vitifer, 1/2 1 6 6 6000 New Clifford, c., Gwennap* 2 3 0   | Feb. 1867   | 277000 ditto 6 per cent. p.d. †1   | 00 0 0 108 105 108   |
| 66                  | 24000 New Cornish [12000 £1 pd., 12000 158, pd.]   | Sept. 1866  | 7500 Darjeeling*† 20000 E. Indian Land, Credit*†, 50000 E. India Irriga, & Canal†.   | 10 0 0 314   |
| 67<br>d.            | 6514 New E. Russell, c, Tavistk. 0 10 6  | Sept. 1866<br>Mar. 1866   | 80000 E. Mola Irriga. & Canair.<br>80000 Ebbw Vale Iron Co. *†   | 7 0 0. 3%. 236 3   |
| 66                  | 6400 New Pembroke, t, c 1 2 6  | Mar. 1867<br>Dec. 1866  | 879975 Electric Telegraph †10  | 7 10 0. 314 130 183  |
| 1.                  |  | May, 1866<br>May, 1866  | 10000 English, & Scot, Marine **   | 0 0 0  |
|                     |  |   | 25060 Fairbairn Engineering**  | 5 00 5 45  |
| 1.                  | 4096 New Wheal Lovell, t 1 11 0  | Jan. 1867<br>Dec. 1866  | 25060 Fairbairn Engineering*†.<br>30000 Fore-street Warehouse*†<br>200000 General Credit and Disc.*†   | 5 0 0 5 4 5<br>12 0 0 193412341234<br>7 10 0 434434 434  |
| 1.                  | 4096 New Wheal Lovell, t 1 11 0  | Jan. 1867<br>Dec. 1866<br>July, 1866<br>July, 1866  | 20000 Fairbaill Engineering*;<br>30000 Fore-street Warehouse*;<br>200000 General Credit and Disc.*;<br>20000 General Stm. Navigation;  | 12 0 0 19341234134<br>7 10 0 434434 434<br>14 0 0 28 26 28   |
|                     | 4096 New Wheal Lovell, t 1 11 0 — 400 New Wh. Seton, c, Cambn. 53 15 0 40 2000 New Wheal Towan, c, t 110 0 — 16000 North Devon, s-!* 0 16 0 — 6000 No. Dolcoath, c, Camborne, 4 3 0 — 3457 North Downs, c, Redgnth, 4 8 10 34 34 3457 North Downs, c, Redgnth, 4 8 10 34 34 34 34 34 3 North Downs, c, Redgnth, 4 8 10 34 34 34 34 34 3 North Downs, c, Redgnth, 4 8 10 34 34 34 34 34 34 34 34 34 34 34 34 34   | Jan. 1867<br>Dec. 1866<br>July, 1866<br>July, 1866<br>Mar. 1867<br>Jan. 1867  | 20000 Fairbaill Engineering*;<br>30000 Fore-street Warehouse*;<br>200000 General Credit and Disc.*;<br>20000 General Stm. Navigation;  | 12 0 0 19341234134<br>7 10 0 434434 434<br>14 0 0 28 26 28   |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867<br>Jan. 1867<br>Dec. 1866<br>July, 1865   | 20000 Fore-street Warchouse*†,<br>200000 General Credit and Disc. *†<br>200000 General Stm. Navigation!<br>4000 General Stm. Navigation!<br>4000 Hollybush Col. and Coke*<br>20000 Home and Colon. Assur. *†<br>100000 Hudson's Bay†<br>80000 Im. Land Co. Marsallies*†<br>50000 Indian Carrying*†   | 0 0 0 1934 1124 124 17 10 0 0 44 14 14 14 14 14 16 17 10 0 17 11 11 11 11 11 11 11 11 11 11 11 11  |
|                     | 4096 New Wheal Lovell, t   | .Mar. 1867<br>.Jan. 1867<br>.Dec. 1866<br>.July, 1865<br>.Mar. 1867<br>.Sept. 1866  | 25000 Farre-street Warchouse+;<br>200000 General Creditand Disc.*†<br>20000 General Creditand Disc.*†<br>20060 General Stm. Navigation!<br>4000 Hollybush Col. and Coke*<br>20000 Home and Colon. Assur.*†<br>100006 Hudson's Bay†<br>80060 Im. Land Co. Marsallies*†<br>50000 Indian Carrying*†   | 3 0 0 1934 124134 17 17 10 0 4 434 44 44 44 44 0 0 28 26 28 4  |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867<br>Jan. 1867<br>Dec. 1866<br>July, 1865<br>Mar. 1867<br>Sept. 1866<br>Fully pd.   | 20000 Fore-street Warchouse*†,<br>200000 General Credit and Disc. *†<br>20000 General Credit and Disc. *†<br>20006 General Stm. Navigation!<br>4000 Hollybush Col. and Coke*<br>20000 Home and Colon. Assur. *†<br>100000 Hudson's Bay†<br>80000 Im. Land Co. Marsailles*†<br>150000 Indian Carryins*†<br>150000 International Financial*†<br>4000 London African Tradg. *†<br>20000 Land Scurtties*†.   | 7 10 0 . 1934 . 1214 1314 . 7 10 0 . 445 . 445 . 45 . 45 . 6 0   |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867<br>Jan. 1867<br>Dec. 1866<br>July, 1865<br>Mar. 1867<br>Sept. 1866<br>Fully pd.<br>May, 1864  | 25009 Farnatt angineering*, 20000 Fore-street Warchouse*, 200000 General Creditand Disc.*, 20000 General Stm. Navigation; 4000 Hollybush Col. and Coke*, 20000 Home and Colon. Assur.*, 100000 Hudson*s Bay†, 80000 In. Land Co. Marsailles*, 50000 Indian Carrying*, 10000 Indian Carrying*, 10000 Indian Carrying*, 10000 Italian Land*, 4000 London African Tradg.*, 20000 Land Securities*, 100000 Indian Carrian Research Colon Land*, 100000 Indian Carrying*, 100000 Italian Land*, 100000 Land Securities*, 1000000 Land Securities*, 1000000 Land Securities*, 1000000000000000000000000000000000000   | 30 0 0 1334 1234 1346 7 10 0 0 434 444 44  |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867<br>Jan. 1867<br>Dec. 1866<br>July, 1865<br>Mar. 1867<br>Sept. 1866<br>Fully pd.<br>May, 1864  | 25009 Farnatt angineering*, 20000 Fore-street Warchouse*, 200000 General Creditand Disc.*, 20000 General Stm. Navigation; 4000 Hollybush Col. and Coke*, 20000 Home and Colon. Assur.*, 100000 Hudson*s Bay†, 80000 In. Land Co. Marsailles*, 50000 Indian Carrying*, 10000 Indian Carrying*, 10000 Indian Carrying*, 10000 Italian Land*, 4000 London African Tradg.*, 20000 Land Securities*, 100000 Indian Carrian Research Colon Land*, 100000 Indian Carrying*, 100000 Italian Land*, 100000 Land Securities*, 1000000 Land Securities*, 1000000 Land Securities*, 1000000000000000000000000000000000000   | 30 0 0 1334 1214 1314 7 10 0 0 444 445 45 6 0 0 134 114 114 114 114 114 114 114 114 114  |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867<br>Jan. 1867<br>July, 1865<br>July, 1865<br>Mar. 1867<br>Sept. 1866<br>Fully pd.<br>May, 1864<br>Mar. 1867<br>Feb. 1867<br>July, 1866   | 20000 Fore-street Warchouse*†, 200000 General Creditand Disc.*† 200000 General Creditand Disc.*† 200000 General Stm. Navigation! 4000 Hollybush Col. and Coke* 20000 Home and Colon. Assur.*† 100000 Home and Colon. Assur.*† 50000 Land Command Financial*† 30000 Indian Carrying*† 150000 Indian Carrying*† 150000 Indian Carrying*† 150000 Land Securities *†   | 30 0 0 1334 1234 1334 7 10 0 0 434 444 44 1  |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867<br>Jan. 1867<br>Jec. 1866<br>July, 1865<br>Mar. 1867<br>Sept. 1866<br>Fully pd.<br>May. 1864<br>Mar. 1867<br>Feb. 1867<br>July, 1866<br>July, 1866<br>July, 1866<br>Mar. 1867<br>Mar. 1867<br>Mar. 1867<br>Mar. 1867  | 20000 Fore-street Warchouse*†. 200000 General Credit and Disc. *† 200000 General Credit and Disc. *† 200000 General Stm. Navigation† 4000 Hollybush Col. and Coke* 20000 Home and Colon. Assur. *† 100000 Home and Colon. Assur. *† 50000 Indian Carrying*† 50000 Indian Carrying*† 50000 Indian Carrying*† 50000 London African Tradg. *† 20000 Land Securities *†  | 30 0 0 1334 124 1344 7 10 0 445 44 45 4  |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867<br>Jan. 1867<br>Jan. 1867<br>July, 1865<br>July, 1865<br>Mar. 1867<br>Sept. 1866<br>Fully pd.<br>May, 1864<br>Mar. 1867<br>July, 1866<br>July, 1866<br>Mar. 1867<br>Mar. 1867<br>Mar. 1867  | 20000 Fore-street Warchouse*†, 200000 General Creditand Disc.*† 200000 General Creditand Disc.*† 20000 General Creditand Disc.*† 20000 General Stm. Navigation† 4000 Hollybush Col. and Coke* 20000 Home and Colon. Assur.*† 50000 Home and Colon. Assur.*† 50000 Indian Carrying*† 10000 Indian Carrying*† 10000 Indian Landt. 4000 London African Trad.*† 20000 Land Securities*†, 20000 London African Trad.*† 12000 London Lounty & Build.*† 12000 London Dist. Telegraph*† 148525 London Gen. Omnibus *† 5000 London and Glas. Engl.*† 10000 Marine Investment*† 10000 Marine Investment*† 12000 Mediterranean Ex. Tel. *† 12000 Mediterranean Ex. Tel. *† 12000 Mediterranean Ex. Tel. *†  | 30 0 0 1334 124 1344 7 10 0 445 44 44 45 4 0 0 28 28 28 28 28 28 28 28 28 28 28 28 28  |
|                     | 4096 New Wheal Lovell, t. 111 0. — 400 New Wh. Seton, c, Cambn. 53 15 0. 40 2000 New Wh. Seton, c, Cambn. 53 15 0. 40 2000 New Wheal Towan, c, t 110 0. — 16000 North Devon, s.t* 016 0. — 34000 No. Dolcoath, c, Camborne. 4 3 0. — 3447 North Downs, c, Redruth. 4 8 10. 34 1/4 3/4 1361 No. Grambler, c, Redruth. 6 19 9. — 16000 N. Hallenbeagle [8000 £1 pd., 8000 8s. £61. pd.] 16000 North Janet, t, s.t. Just 10 8 0. — 20000 Nth. Minera, l, Wrexham 1 0 0. — 40000 N. Phornix, c, Linkinhorne 4 4 0. — 20000 North Levant, t, c, St. Just 10 8 0. — 20000 Nth. Minera, l, Wrexham 1 0 0. — 4000 N. Phornix, c, Linkinhorne 4 4 0. — 20000 Nth. Seton 1 10000 N. Phornix, c, Linkinhorne 5 16 0. 4 4 1024 North Retailack Mine 2 0 0. — 4 4 1024 North Retailack Mine 2 0 0. — 4 4 1024 North Retailack Mine 2 0 0. — 4 4 1024 North Retailack Mine 2 0 0. — 4 4 1024 North Wheal Sasset, c, Camborne. 50 8 0. 8 1/2 7 1/2 8 1000 North Wheal Sasset, c, th. 5 0 0. — 5 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 | Mar. 1867<br>Jan. 1867<br>Jan. 1867<br>July, 1865<br>July, 1865<br>Mar. 1867<br>Sept. 1866<br>Fully pd.<br>May, 1864<br>Mar. 1867<br>July, 1866<br>July, 1866<br>Mar. 1867<br>Mar. 1867<br>Mar. 1867<br>April, 1866<br>Aug. 1866  | 20000 Fore-street Warchouse*†, 200000 General Creditand Disc.*† 200000 General Creditand Disc.*† 200000 General Creditand Disc.*† 200000 Home and Colon. Assur.*† 100000 Home and Colon. Assur.*† 100000 Home and Colon. Assur.*† 100000 Indian Carrying*† 100000 Indian Carrying*† 100000 Indian Carrying*† 100000 London African Trad.*† 200000 Land Securities*†, 200000 London African Trad.*† 12000 London and Calcolona*† 120000 London Loury & Build.*† 12000 London Dist. Felegraph*† 148525 London Gen. Omnibus *† 10000 Marine Investment*† 12000 Marine Investment*† 12000 Mediterranean Ex. Tel. *† 12000 Mediterranean Ex. Tel. *† 12000 Millwall Freehold Land*†   | 30 0 1 1334 1234 1234 1234 1234 1234 1234 12   |
|                     | 4096 New Wheal Lovell, t. 111 0. — 400 New Wh. Seton, c, Cambn. 53 15 0. 40 2000 New Wh. Seton, c, Cambn. 53 15 0. 40 2000 New Wheal Towan, c, t. 110 0. — 16000 North Devon, s.ts. 016 0. — 34000 No. Dolcoath, c, Camborne. 4 3 0. — 3447 North Downs, c, Redruth. 4 8 10. 34 34 34 34 34 34 34 34 34 34 34 34 34  | Mar. 1867<br>Jan. 1867<br>Jan. 1867<br>July, 1865<br>July, 1865<br>Mar. 1867<br>Sept. 1866<br>Fully pd.<br>May, 1864<br>Mar. 1867<br>July, 1866<br>July, 1866<br>Mar. 1867<br>Mar. 1867<br>Mar. 1867<br>April, 1866<br>Aug. 1866  | 20000 Fore-street Warchouse*†, 200000 General Creditand Disc.*† 200000 General Creditand Disc.*† 200000 General Creditand Disc.*† 200000 Home and Colon. Assur.*† 100000 Home and Colon. Assur.*† 100000 Home and Colon. Assur.*† 100000 Indian Carrying*† 100000 Indian Carrying*† 100000 Indian Carrying*† 100000 London African Trad.*† 200000 Land Securities*†, 200000 London African Trad.*† 12000 London and Calcolona*† 120000 London Loury & Build.*† 12000 London Dist. Felegraph*† 148525 London Gen. Omnibus *† 10000 Marine Investment*† 12000 Marine Investment*† 12000 Mediterranean Ex. Tel. *† 12000 Mediterranean Ex. Tel. *† 12000 Millwall Freehold Land*†   | 30 0 0 1334 1234 1334 7 10 0 0 434 444 44 44 10 0 28 26 25 25 0 0 134 114 134 134 134 134 134 134 134 134  |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867<br>Jan. 1867<br>Jan. 1867<br>July, 1865<br>July, 1865<br>Mar. 1867<br>Sept. 1866<br>Fully pd.<br>May, 1864<br>Mar. 1867<br>July, 1866<br>July, 1866<br>Mar. 1867<br>Mar. 1867<br>Mar. 1867<br>April, 1866<br>Aug. 1866  | 20000 Fore-street Warchouse*†, 200000 General Creditand Disc.*† 200000 General Creditand Disc.*† 200000 General Creditand Disc.*† 200000 Home and Colon. Assur.*† 100000 Home and Colon. Assur.*† 100000 Home and Colon. Assur.*† 100000 Indian Carrying*† 100000 Indian Carrying*† 100000 Indian Carrying*† 100000 London African Trad.*† 200000 Land Securities*†, 200000 London African Trad.*† 12000 London and Calcolona*† 120000 London Loury & Build.*† 12000 London Dist. Felegraph*† 148525 London Gen. Omnibus *† 10000 Marine Investment*† 12000 Marine Investment*† 12000 Mediterranean Ex. Tel. *† 12000 Mediterranean Ex. Tel. *† 12000 Millwall Freehold Land*†   | 3 0 0 1334 1234 1234 1234 1234 1234 1234 1234  |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867 Jan. 1867 Jan. 1867 Jan. 1866 July, 1865 Mar. 1867 Sept. 1866 Mar. 1867 Sept. 1866 Mar. 1867 Mar. 1867 Mar. 1867 Mar. 1867 July, 1866 Mar. 1867 April, 1866 Mar. 1867 Aug. 1866 Aug. 1866 Aug. 1866 Aug. 1866 Cut. 1866 Cot. 1866 | 20000 Fore-street Warchouse*; 200000 General Credit and Disc.*; 200000 General Credit and Disc.*; 200000 General Credit and Disc.*; 200000 General Stm. Navigation; 4000 Hollybush Col. and Coke*; 20000 Home and Colon. Assur.*; 50000 Index Carrying*; 50000 Indian Carrying*; 50000 Indian Carrying*; 50000 Indian Carrying*; 50000 London African Tradg.*; 20000 Land Securities*; 20000 Land Securities*; 20000 London Agrican Tradg.*; 20000 London Lounty & Build.*; 50000 London Dist. Felegraph*; 148325 London Gen. Omnibus * 5000 London Brown Marine*; 5000 Marine Investment*; 5000 Marine Investment*; 50000 Millwall Freehold Land*; 50000 Millwall Land and Col*; 12000 National Discount*; 50000 National Discount*; 50000 National Discount*; 50000 National Previn Marine*;  | 3 0 0 1334 123 1234 7 10 0 4 45 44 4 4 4 10 0 28 26 26 |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867 Jan. 1867 Jan. 1867 July, 1865 Mar. 1867 Sept. 1866 Mar. 1867 Kept. 1866 Mar. 1867 Mar. 1867 Mar. 1867 Mar. 1867 July, 1866 Mar. 1867 Mar. 1867 Mar. 1867 Mar. 1868 Mar. 1867 July, 1866 Mar. 1867 Mar. 1867 July, 1866 Mar. 1867 Mar. 1867 Jan. 1866 May. 1866 Dec. 1866 Feb. 1865 Fully pd.   | 20000   Fore-street Warchouse*+,     20000   General Credit and Disc.*+   20000   General Credit and Disc.*+   20000   General Credit and Disc.*+   20000   General Stm. Navigation   4000   Hollybush Col. and Coke*   20000   Home and Colon. Assur.*+   20000   Home and Colon. Assur.*+   20000   Home and Colon. Assur.*+   20000   Indian Carrying*+   20000   Indian Carrying*+   20000   Indian Carrying*+   20000   Indian Carrying*+   20000   Land Securities*+   20000   Land Se | 3 0 0 1934 12341234<br>7 10 0 443 414 414<br>10 0 28 28 28 28<br>5 0 0   |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867 Jan. 1867 Jan. 1867 Jan. 1866 July, 1865 Mar. 1867 Sept. 1866 Mar. 1867 Kept. 1866 Mar. 1867 Mar. 1867 Mar. 1867 July, 1866 Mar. 1867 April, 1866 Mar. 1867 April, 1866 Mar. 1867 Dec. 1866 Mar. 1867 Jan. 1867 Dec. 1866 Mar. 1867 Jan. 1867 Jan. 1867 Jan. 1867 Jan. 1867 Jan. 1867 Jan. 1866 Oct. 1866 Feb. 1865 Fully pd. Aug. 1866 Fully pd. Aug. 1866 Fully pd. Aug. 1866 Fully pd.   | 20000   Fore-street Warchouse*+,     20000   General Credit and Disc.*+   20000   General Credit and Disc.*+   20000   General Credit and Disc.*+   20000   General Stm. Navigation   4000   Hollybush Col. and Coke*   20000   Home and Colon. Assur.*+   20000   Home and Colon. Assur.*+   20000   Home and Colon. Assur.*+   20000   Indian Carrying*+   20000   Indian Carrying*+   20000   Indian Carrying*+   20000   Indian Carrying*+   20000   Land Securities*+   20000   Land Se | 3 0 0 1 1334 1234 1234 1234 134 134 134 134 134 134 134 134 134 1  |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867 Jan. 1867 Jan. 1867 Jan. 1865 July, 1865 Mar. 1867 Sept. 1866 Fully pd. May, 1864 Fully pd. May, 1864 Fully pd. Mar. 1867 July, 1866 Mar. 1867 July, 1866 Mar. 1867 April, 1866 Mar. 1867 Aug. 1866 Mar. 1867 Jan. 1867 Jan. 1866 Feb. 1865 Feb. 1865 Fully pd. Aug. 1866 Feb. 1865 Fully pd. Aug. 1866 Fully pd. Aug. 1866 Fully pd. Aug. 1866 Fully pd. Fully pd. Full Pf. Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867  | 20000   Fore-street Warchouse*+,     20000   General Credit and Disc.*+   20000   General Credit and Disc.*+   20000   General Credit and Disc.*+   20000   General Stm. Navigation   4000   Hollybush Col. and Coke*   20000   Home and Colon. Assur.*+   20000   Home and Colon. Assur.*+   20000   Home and Colon. Assur.*+   20000   Indian Carrying*+   20000   Indian Carrying*+   20000   Indian Carrying*+   20000   Indian Carrying*+   20000   Land Securities*+   20000   Land Se | 3 0 0 1 1334 1234 134 134 134 14 0 0 28 28 20 28 3 0 3 3 0 3 0 3 3 3 0 3 0 3 0 3 0 3   |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867 Jan. 1867 Jan. 1867 July, 1865 Mar. 1867 Sept. 1866 Mar. 1867 Mar. 1867 Mar. 1867 Mar. 1867 Mar. 1867 July, 1866 Mar. 1867 Mar. 1867 Mar. 1867 Mar. 1867 Mar. 1867 Mar. 1867 Mar. 1868 Mar. 1867 July, 1866 Mar. 1867 Mar. 1867 Jec. 1866 Mar. 1867 Jan. 1867 Jan. 1867 Jan. 1867 Jan. 1867 Feb. 1865 Fully pd. Aug. 1866 Fully pd. Aug. 1866 Fully pd. Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867   | 20000   Fore-street Warchouse* , 200000   General Credit and Disc.*  200000   General Stm. Navigation  | 19   |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867 Jan. 1867 Jan. 1867 Jan. 1865 July, 1865 Mar. 1867 Sept. 1866 Fully pd. May, 1864 Fully pd. May, 1864 Mar. 1867 July, 1866 Mar. 1867 July, 1866 Mar. 1867 July, 1866 Mar. 1867 July, 1866 Mar. 1867 Mar. 1867 May, 1866 Mar. 1867 Jan. 1867 May, 1866 Feb. 1867 May, 1866 Feb. 1865 Fully pd. Aug. 1866 Feb. 1865 Fully pd. Aug. 1866 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1866 Feb. 1866   | 20000   Fairs-atric   Marchouse* , 200000   General Credit and Disc.*  200000   Home and Colon Assur.*  200000   Home and Colon Assur.*  200000   Home and Colon Assur.*  20000   Indian Carrying*  100000   Indian Carrying*  100000   Indian Carrying*  100000   Indian Carrying*  20000   Landon African Tradg.*  20000   Landon African Tradg.*  20000   Landon African Tradg.*  20000   Landon African Tradg.*  20000   Landon County & Build.*  12000   Landon Dist. Telegraph*  148525   London Gen. Omnibus *  5000   London County & Build.*  12000   Marine Investment*  12000   Milwall Freebold Land*  140000   Milwall Freebold Land*  14 | 19   |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867 Jan. 1867 Jan. 1867 Jan. 1867 July, 1865 Mar. 1867 Sept. 1868 Fully pd. May, 1864 Mar. 1867 Feb. 1867 July, 1866 Mar. 1867 July, 1866 Mar. 1867 Aprill, 1866 July, 1866 Mar. 1867 Aug. 1866 Mar. 1867 Jan. 1867 Mar. 1867 Feb. 1865 Feb. 1865 Feb. 1865 Feb. 1865 Feb. 1866 Feb. 1866 Feb. 1867 Feb. 1866 Feb. 1866   | 20000  | 1  |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867 Jan. 1867 Jan. 1867 Jan. 1867 July, 1865 Mar. 1867 Sept. 1866 Fully pd. May, 1864 Fully pd. May, 1864 Fully pd. Mar. 1867 July, 1866 Mar. 1867 July, 1866 Mar. 1867 July, 1866 Mar. 1867 May, 1866 Mar. 1867 July, 1866 Mar. 1867 May, 1866 Mar. 1867 Feb. 1867 Feb. 1867 Feb. 1866 Fully pd. July, 1866 Feb. 1866 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1866 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1866  | 20000   Fair-street Warchouse* .   | 1  |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867 Jan. 1867 Jan. 1867 Jan. 1867 July, 1865 Mar. 1867 Sept. 1868 Fully pd. May. 1864 Mar. 1867 July, 1866 Feb. 1866 Feb. 1867 Feb. 1866 Feb. 1864 Aug. 1866 Feb. 1865 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1866 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867   | 20000  | 1934      |
|                     | 4096 New Wheal Lovell, t   | Mar. 1867 Jan. 1867 Jan. 1867 July, 1865 Mar. 1867 Mar. 1867 May. 1864 May. 1864 Mar. 1867 Mar. 1867 July, 1866 Mar. 1867 Mar. 1867 Mar. 1867 Mar. 1867 July, 1866 Mar. 1867 Mar. 1866 Mar. 1867 Mar. 1866 Mar. 1867 Mar. 1866 Mar. 1867 May. 1866 Feb. 1866 Feb. 1866 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1867 Feb. 1866  | 20000  | 1  |

#### BILLAMBONG

| 1000 | 1       | MITCHIEF PANTOTTO  |
|------|---------|--|
| 1863 | 1       | MISCELLANEOUS.   |
| 1867 | 1       |  |
|      | 60000   | Anglo-American Telegr. *† 10 0 0 1614151/6161/6  |
| 1866 | 20000   | Anglo-Mexican Mintt 10 0 0 16 15 16 16   |
| 1866 | 600000  | Atlantic Telegraph** 100 0 0 35 30 35  |
| 1866 | 90000   | Australian Agriculturalt, 20 10 0., 19 ., 17 19  |
| 864  | 47000   | Berlin Waterworks** 10 0 0 121411341214  |
| 1866 | 25000   | Bolckow, Vaughan + 22 10 0 161/2 "   |
|      | 6000    | British American Landt 44 0 0 25 20 25   |
| 1866 | 534780  | Brit. & Irish Mag. Teleg. * 100 0 0 93 89 93   |
| 866  | 80000   |  |
| 866  | 95000   | Ceylon Company*† 10 0 0 101/2 9 10   |
| 866  | 12000   | Ceylon Company*† 10 0 0 10½ 9 10<br>ditto A shares*† 2 0 0 2 1 2   |
| 866  | 27000   |  |
|      | 20000   | City Discount* 3 0 0 11/4 1 11/4   |
|      | 20000   | City London Real Prop. * 8 0 0 5 51/4  |
| 866  | 35000   | City of Mossow Gast 95 0 0 - 16 17   |
| 865  | 20000   | City Offices*† 15 0 0 8¾   |
| 866  | \$0000  | City Offices*† 15 0 0. 8 34 Commercial Uni. (Insu.)† 5 0 0. 44 34 44 Copper Miners of Eng.†(2000 £25 pd., 40000£100 pd.) Cred. Fonc. of Mauritius*† 10 0 0 25 27 Crystal Palace† 100 0 0 27 25 27 100 104 100 105 105 105 105 105 105 105 105 105  |
|      | 42000   | Copper Miners of Eng. + [2000 £25 pd., 40000£100 pd.]  |
| 867  | 10000   | Cred. Fonc. of Mauritins t 10 0 0 "  |
| 866  | 1002992 | Crystal Palacet 100 0 0., 27 ., 25 27  |
|      | 160820  | ditto preferencet100 0 0 105100 104  |
|      | 977000  | ditto Epercent p d 4100 0 0 108 . 105 108  |
| 867  | 7500    | Darjeeling*† 14 0 0 13 11 13   |
| 866  | 90000   | Darjeeling*† 14 0 0. 13 11 13<br>E. Indian Land, Credit*†. 10 0 0 3½<br>E. India Irriga. & Canal†. 16 10 0 12¾ 12 13   |
| 866  | 80000   | E. India Irriga. & Canalt. 16 10 0 12% 12 13   |
| 866  | 90000   | Ebbw Vale Iron Co. * 25 0 0 10 9 10  |
| 866  | 112812  | Egyptian Com & Trade #4 7 0 0 336 236 3 at   |
| 867  | 970075  | Ebbw Vale Iron Co.*+ 25 0 0 10 9 10 Egyptian Com. & Tradg.*† 7 0 0 334 234 3 Electric Telegraph †100 0 0 134 130 133   |
| 866  | 000000  | English and For. Credit*† 7 10 0 3%  |
| 866  | 10000   | English & Scot. Marine * 8 0 0   |
| 866  | 05060   | Electric Telegraph ; 100 0 0, 134 130 133 English and For Credit*† 7 10 0, 3 ½ Fairbairn Enginee*† 8 0 0, Fairbairn Engineering*†, 5 0 0, 5 4 5 Fore-street Warehouse*†, 12 0 0, 1934, 124/134 General Credit and Disc. † 7 10 0, 43, 444 44 General Stm. Navigation*† 14 0 0, 28 26 28 Hollybuck Col. and Credit 5 0 4 20 28 28 |
| 867  | 25000   | Fore-street Warehouse*1 12 0 0 19% 121/124   |
| 866  | 30000   | Concret Credit and Discret 7 10 0 1874 414 Al  |
| 866  |         | General Credit and Disc. + 7 10 0 4% 4%  |
|      | 20000   | General Stm. Navigation 14 0 0 28 26 28  |
| 866  | 4000    |  |
| 867  | 20000   | Home and Colon. Assur. *† 5 0 0 1%1% 14<br>Hudson's Bay† 20 0 0 16%16%   |
| 867  | 100000  | Hudson's Bayt 20 0 0 16%16%16%   |
| 866  | 80000   | Im. Land Co. Marsailles*† 10 0 0 "   |
| 865  | 50000   |  |
| 867  | 150000  | International Financial* 5 0 0   |
| 866  | 30000   | Italian Landt  |
| pd.  | 4000    |  |
| 864  | 20000   | Land Securities * † 5 0 0 "  |
| 867  | 20000,  | London and Caledonian*† 5 0 0 34 14  |
| 867  | 50000   | London Councy & Build.   |
| 867  | 12060   | London Gen. Omnibus ** 4 0 0. 3½2% 3% "  |
| 866  | 148525  | London Gen. Omnibus * 4 0 0 314 276 316  |
|      | 5000    | London and Glas. Engl. 7 25 0 0 0  |
| 866  | 64500   | London & Prov. Marine 2 0 0 2 11/4 11/4  |
| 866  | 10000   | Marine Investment*† 6 5 0 "  |
| 867  | 12500   | Maurittus Land, Cred., &c. *† 2 0 0 134 134 Mediterranean Ex. Tel. *† 10 0 0 254 234 Merchant Shipping*† 25 0 0 13 174.184 Millwall Freehold Land*†100 0 0 35 30 40  |
| 867  | 12000   | Mediterranean Ex. Tel. *† 10 0 0 2½ 2½ Merchant Shipping*† 25 0 0 13 17/418/4  |
| 866  | 10000   | Merchant Shipping*† 25 0 0 1317 18%  |
| 866  | 500000  | Millwall Freehold Land*1100 0 0 35 30 40   |
| 867  | 40000   | Miliwali fronworks 1 7 10 0  |
| 866  | 20000   | Mineral Rights Assoc 1 0 0 "   |
| 867  | 22500   | Natal Land and Col*† 5 0 0 1   |
| 867  |         |  |
| 866  | 40000   | ditto new, issued at 5 pm. + 3 15 0 1016 54 5  |
| 866  | 20000   | National Provin. Marine*† 2 10 0   |
| 865  |         | National Steam Naviga.* 30 0 0 14 12 14  |
| pd.  | 20000   | New Zealand Loan, &c. * 2 10 0 3 2 2   |
| 860  | 20000   | National Steam Naviga. 7 30 00 . 18 2 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
| pd,  | 40000   | N. British & Merc. Insur. † 6 5 0 1614½1½<br>Oriental Gas*† 5 0 0 5½5½ 5½<br>ditto New*† 1 0 0 1¼ 1 1¼   |
| 867  | 30000   | Oriental Gas*† 5 0 0 514514 514 "  |
| 867  | 30000   | ditto New*t 1 0 0 114 1 114  |
| 867  | 25000   | Otago and Southland* 2 0 0 1% 59 61  |
| 866  | 20000   | reminsular and Oriental of 50 00 66 65   |
|      | 20000   | ditto ditto New* 50 00 66 59 61  |
| 886  | 10000   | Rhymney Iron*† 50 0 0 26 23 25   |
| 86:E | 10000   | ditto New** 50 0 0 86% 7% "  |
| 86€  | 15000   | Royal Mail Steam* 16 60 0 0 109 100 106  |
| pil. | 300000  | Scottish Austra. Invest. * 100 0 0 125 120 125   |
| 806  | 14200   | South Australian Land 1. 25 0 0 35 32 00   |
| 866  | 280000  | Submarine Telegraph*† 100 0 0 70   |
| 866  | Times.  | ditto Scrip*t 1 0 0 3a   |
| 867  | 100000  | Thames & Mersey Marine # 2 0 0 6% 4% 978"  |
| 867  | 30000   | Uni.Kingdom Telegraph * 5 0 0 216 1 1/2 2/2 "  |
| 866  | 20000   | ditto 10 per cent. pref.* 5 0 0 5 "  |
|      |         |  |

- \*.\* Companies marked thus \* have been incorporated with Limited Liability; those marked † have been admitted on the Stock those marked thus; have paid Dividends.
- \*.\* Our object being to make the Share List correct, we earnestly call upon those who have the power to aid us, by forwarding at tions or correction which may, from time to time, come under their notice. To shareholders, as well as those officially come the mines, we appeal for information. Reports from mines—in fact, mining intelligence of every description, forwarded to will meet with ready attention.
- London: Printed by Richard Middleton, and published by Henry English (the proprietors), at their office, 26, Fleet Still where all communications are requested to be addressed.—March 30, 1867.